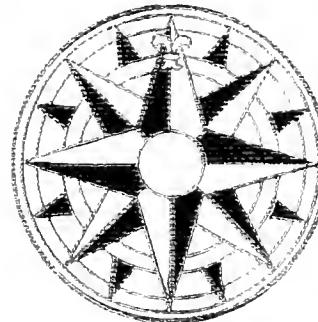


DODGE'S  
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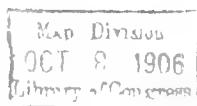


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# DODGE'S GEOGRAPHY OF MISSOURI

By

J. M. GREENWOOD

*Superintendent of Schools, Kansas City, Missouri*

and

C. F. MARBUT

*Professor of Geology and Mineralogy, the University of Missouri*

*PART I*

MISSOURI AS A WHOLE

*PART II*

THE GROWTH AND DEVELOPMENT OF CITIES



CHICAGO NEW YORK LONDON

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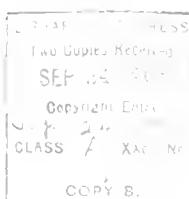
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## THE INTRODUCTION

**H**OME Geography is usually the first work to be taken up in any study of geography because beginning students need to know first the geography of the locality in which they live, in which they are most interested, and with which they are most familiar from personal experience. The results gained from a study of the region they can see gives them the ability to understand remote regions that can only be pictured or described to them. Because our own home locality is of most interest to us is also a reason why we need to know it better than we need to know any other region of the world. Hence at some time during the school course it is most valuable to make a careful study of the state or group of states in which we live that we may have a better understanding of the geography about us than we can get from the necessarily brief accounts given in a text-book of geography.

In a text-book of geography we study the relation of one state or group of states to the whole country of which our home region is a part, and our commercial relations to the world as a whole. It follows that in such a treatment the characteristics that distinguish our own home regions must largely be lost to sight in the consideration of the great features that distinguish the country as a whole.

In a special text-book devoted to one state or group of states we can learn more about our own region, its important surface features, its climate, the occupations of its people, its products, its local commerce, its history, its chief cities, and many other features of great interest to us. Hence we need to make a special study of our home locality after we have studied the larger region of which it is an important part. A local geography is not only valuable for study in school that we may know well the region about us, but it is valuable also as a reference volume to which we can refer for facts about our own state in our homes whenever in our reading or conversation some question arises concerning our own state which needs to be answered at once.

In this text-book the surface features, the climate, the soil and other natural resources which determine the occupations of the people are studied first because they are the large features which determine the distribution and success of industries. One of the great lessons the student learns in geography is Man's absolute dependence upon Nature for his existence. In Missouri, as in other regions, topography and climate pointed out the path of development that communities must follow in order to make sure their existence within its borders. In the pages that follow, the student finds traced the fundamental conditions that have moulded Missouri life. After these come the historical events that are landmarks in the growth of the state, and then the study of the industrial and commercial features is taken up. To these, which explain the reasons for the development and growth of the larger cities, and which show us why our own region is important to the country as a whole, careful attention has been given.

Certain facts like the distribution and character of educational institutions, the distribution of congressional districts, and the form of government in the region are included, because our knowledge of our own locality would be incomplete without them. These fittingly illustrate the political unity that binds together the interests of all the individuals who form the body-politic which we call the state.

That this book may prove especially valuable as a reference work which may properly be made a part of the family library for constant consultation on many points, carefully prepared diagrams, tables of statistics, and references to further reading have been included.

RICHARD ELWOOD DODGE.

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TROUT GLEN, HA HA TONKA LAKE.

# THE GEOGRAPHY OF MISSOURI

By J. M. GREENWOOD, *Superintendent of Schools of Kansas City, Mo.*, and C. F. MARBUT, *Professor of Geology and Mineralogy, the University of Missouri.*

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## I. MISSOURI AS A WHOLE

**Location.** Missouri, one of the chief states of the Mississippi Basin group, owes its advancement largely to its position near the geographic center of the United States and of the Mississippi Basin. (Adv. Geog. Fig. 192.) Along the eastern border flows the largest river of the United States, while the second river in size flows directly across the state. These rivers, with their tributary streams, make up great stretches of natural highways that early attracted the traffic out of which grew naturally the settlement and development of the region. Beneath the soil of Missouri vast stores of mineral wealth, upon the hills and lowlands

great tracts of woodland, and within the valleys and plains hundreds of square miles of fertile farming lands afforded boundless industrial opportunities for the people.

**Size.** Missouri has an extreme length from north to south of 328 miles, and a breadth

varying from 305 miles to 208 miles. This gives the state a total area of 69,415 square miles, of which 650 square miles are water surfacee. The state boundary, as a whole, is about 1,400 miles in length. Of this mileage the land boundaries make up about 665 miles and the boundaries in rivers

the remainder, or about 770 miles. (Fig. 3.)

**Surface.** The surface of Missouri presents great variety. The state lies in the center of the Mississippi Basin, one of the largest



FIG. 1. A relief map of Missouri.



FIG. 2. The famous Arcadia Valley and the St. Francois Mountains. A characteristic view in the Ozark region.

## THE GEOGRAPHY OF MISSOURI

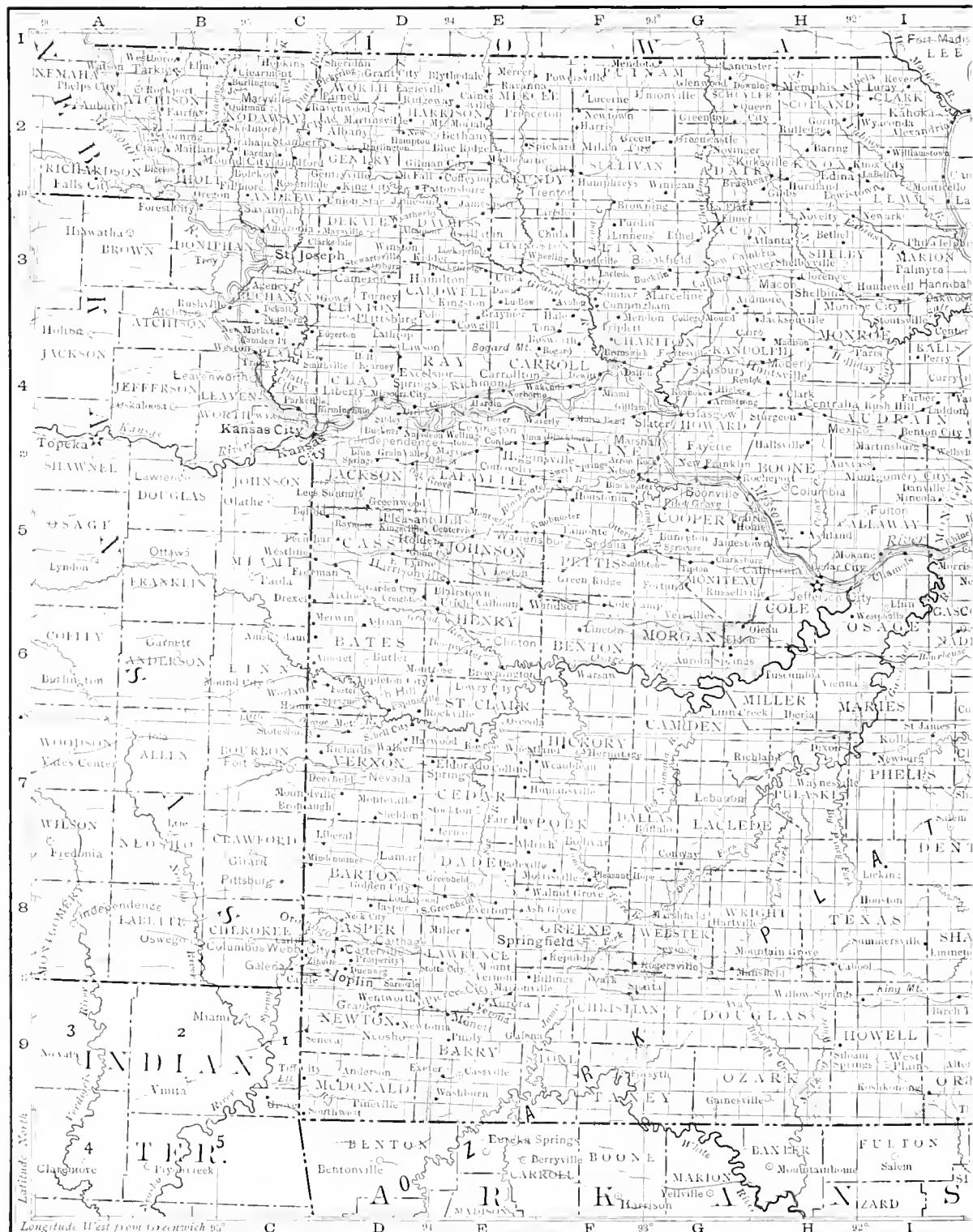


FIG. 3. A political map of Missouri.



and most fertile valleys in the temperate regions of the world. With the exception of the Ozark region (Fig. 2), this vast area, reaching more than 1,500 miles from north to south and nearly the same distance from east to west, slopes gradually from its outer rim toward the Mississippi River and the Gulf of Mexico. The section of Missouri north of the great river which crosses the state has an altitude of about 1,100 feet in the northwest and along the Iowa line to the main divide of the Mississippi and Missouri rivers. The incline from there is gradual to the Mississippi and at the northern line is 500 feet, while the mouth of the Missouri is 413 feet above sea level. (Fig. 4.) This section of the state embraces an area of 23,600 square miles. It is gently rolling, contains beautiful prairies, many streams, and wide stretches of surpassingly fertile bottom land.

Southern Missouri is in marked contrast, much of it being an elevated plateau, heavily forested, the greatest height of which varies from 1,300 to 1,800 feet. This plateau reaches its extreme altitude near the southern boundary, and the whole region, an area about 42,000 square miles in extent, abounds in fine forests and is diversified by many beautiful streams, most of which empty into the Missouri. (Fig. 5.) The highest elevations in Missouri are Taum Sauk Mountain in Iron County and the Cedar Gap Plateau in Wright County. In the extreme southeastern section of the state is a lowland region embracing an area of about 3,000 square miles. (Fig. 4.)

The Ozark region is the hilly part of the state. It consists of three divisions—the Ozark Plateau, the Ozark Border, and the St. François Mountains. None of the hills, however, is high enough to deserve the name of mountain, the highest elevations being only about 1,800 feet above sea level and only 600 or 700 feet above the country surrounding them. (Figs. 2, 3, and 4.)

The Ozark Plateau, often called the Ozark Mountains, occupies the greater part of the Ozark region. (Fig. 2.) This is not and never has been a mountain region. It is merely a low plateau with valleys cut into it. Its height varies from 1,000

## THE GEOGRAPHY OF MISSOURI

to 1,600 feet above sea level, but variations in level do not take place rapidly.

The Ozark Border is merely the sloping belt between the Ozark Plateau and the lower lying prairie region. Here the country is lower, the valleys wider and more shallow than in the Plateau region. (Fig. 4.)

The St. François Mountains, the highest elevations in Missouri, consist of a great many rather high, rounded, or oval-shaped hills all underlaid by granite rocks. (Figs. 2 and 3.) They are not so high as they once were, and we call them mountains because once they were mountains.

The prairie region in Missouri has two main subdivisions—a low easterly one and a higher westerly one. The easterly one includes the largest area of smooth land in the state. Its elevation varies from 750 to 950 feet above sea level. Its valleys are all shallow and in many places they are very wide. The western part of the prairie region varies in elevation from 950 to about 1,150 feet above sea level. Its valleys, as a whole, are deeper and narrower than those in the eastern part. In the extreme northwestern corner of the state is a small area with wider valleys but with the upland of about the same height. (Figs. 4 and 10.)

The lowlands occupying the southeastern corner of the state consist mostly of low

river-bottom land. Running down the middle of this lowland is a long, rather narrow ridge which lies about 500 feet above the sea level, while the bottom lands are usually less than 300 feet above sea level. (Figs. 1 and 4.)

**Drainage.** The entire eastern boundary of Missouri is washed by the waters of the Mississippi, which, because of its many windings, gives the state an eastern water front of 560 miles. The Missouri (Fig. 6), second only to the Mississippi in importance, forms

the boundary along the upper part of the western side of the state, from the first point of contact to Kansas City, a distance of 208 miles, where it enters Missouri. Thence it crosses the entire state, flowing southeast 430 miles to join the Mississippi, which it en-

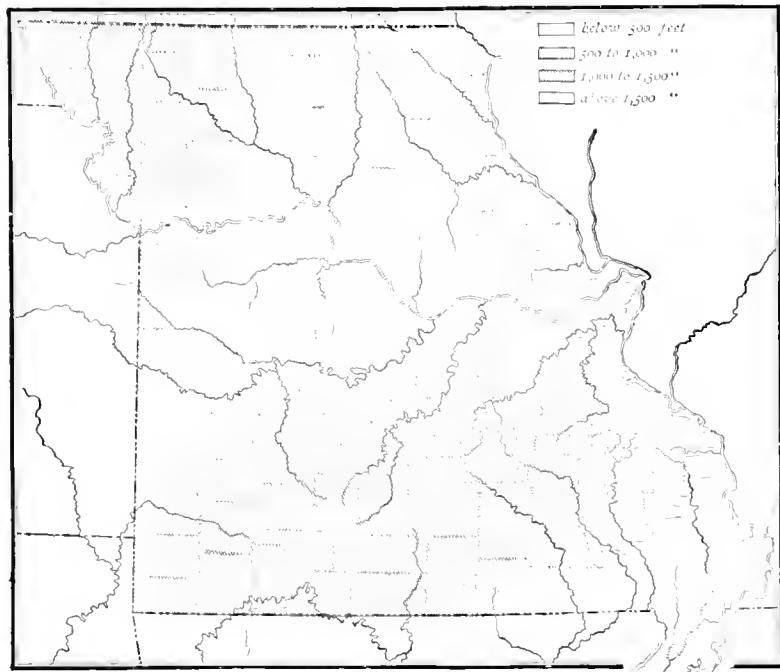


FIG. 4. *A physical map of Missouri.*

ters a few miles above St. Louis. The part of the state north of the Missouri River is drained by many rivers and their tributary streams, some of which flow into the Missouri and some into the Mississippi. The principal rivers flowing into the Missouri are the Chariton, Grand, Platte, and the Nodaway. Those flowing into the Mississippi are the Fox, Salt, Fabius, and Cuivre. The streams of south Missouri flow into the Missouri, the Mississippi, and the Arkansas rivers. Those flowing into the Missouri are the La Mine Moreau, Osage, and Gasconade. The two

last named streams have many large tributaries which drain a wide area of territory. The streams flowing into the Mississippi are the Meramee and the St. Francis. Those flowing into the Arkansas River are White River, with a great many large tributaries, and Spring River. Innumerable small streams, often having their origin in the fine springs with which the country abounds, diversify the surface of the whole state. Six hundred and sixty miles of the rivers bordering Missouri

are navigable. This, added to the length of the Missouri River within the state, but excluding a number of smaller streams that are navigable for short distances, gives Missouri more than 1,000 miles of navigable waterways. (Figs. 1 and 3.)

**The Rocks of Missouri.** The surface of Missouri is made up of two kinds of material or rocks. One is composed of loose material, such as clay, sand, and gravel, and is called *mantle* rock. (Fig. 7.) The other kind is hard and compact and often occurs in layers,



FIG. 5. In a forest of the Ozark region. The forests of the Ozark Plateau consist in large part of valuable hardwoods. Notice the absence of undergrowth, a characteristic of these forests.

such as sandstone, limestone, and granite, and this we call *bed* rock. (Figs. 9, 10, and 11.) Everywhere the bed rock underlies the mantle rock and nearly everywhere the mantle rock covers the bed rock. The bed rock can be seen only on steep slopes and in a few other places where the mantle rock has been washed away. (Fig. 8.)

The mantle rock in north Missouri was brought here during the glacial period by the great ice sheet and spread over the top of the bed rock. (Adv. Geog. Fig. 180.)

Usually it is thick, especially in the central part of this section, where the bed rock is rarely seen except in the deepest hollows. Northeast it is thinner and the bed rock may be seen in almost any creek bed. In south Missouri the mantle rock is thinner than in north Missouri. It was formed here where we find it by the decay of the exposed portion of the bed rock which may be found at varying depths beneath the surface. The mantle rock of north Missouri everywhere is a clay. Along



FIG. 6. Revetment work in progress on a bend of the Missouri River. Here the action of the water is wearing away and destroying the banks. To prevent this, mats woven of willows are being sunk along shore on which rocks will be spread, forming a shield and protecting the banks.

the Missouri River, especially in the western part of the state, it is brownish in color and is called *loess*. This is one of the most fertile sections of the state.

There are a great many kinds of bed rocks in the world, but many of these are much alike, so we can arrange them all in a small number of groups. While the rocks of several separate groups appear in different places in the state, those of the same group occur together. Dividing the whole state according to the kind of underlying bed rock, we have four distinct regions or areas. These regions may be called the granite area, the limestone area, the shale area, and the sand-clay area. Since the bed rock determines, to a considerable extent, the eleva-

tion, shape, soil, mineral deposits, healthfulness, and prosperity of the country, it will be well to know where these regions are.

The granite area lies in the southeastern part of the state. It is not a continuous area, the rocks being found in patches. There are, however, a great many of these patches, the largest of them occurring in St. Francois, Iron, and Madison counties. These granite rocks, all hard, crystalline, and usually somewhat pinkish in color, are the strongest as well as the oldest rocks in the state. (Figs. 8 and 9.) They are the rocks that underlie the hills around Iron Mountain, Pilot Knob, and Ironton. Many beautiful monuments are made of granite that is quarried in this region and large quantities of building

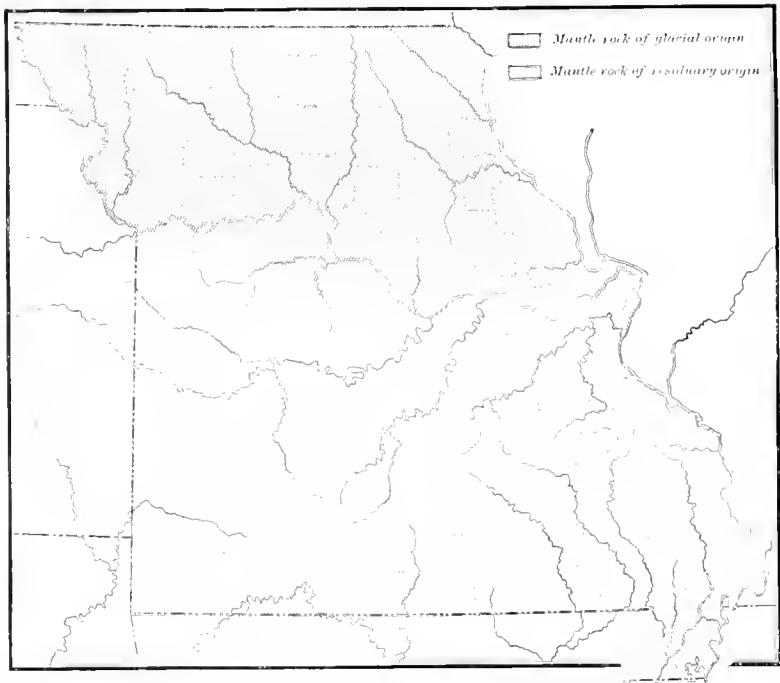


FIG. 7. *The distribution of mantle rocks in Missouri.*

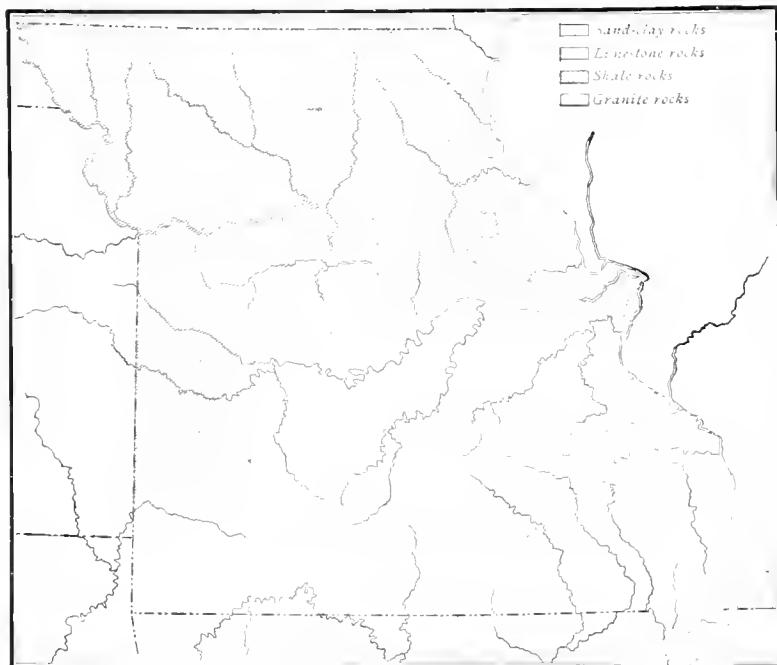


FIG. 8. *The distribution of bed rocks in Missouri.*

stone, paving blocks, and of crushed stone are shipped from this locality to St. Louis and to other cities.

The limestone area underlies a large portion of the state, surrounding completely the area underlaid by the granite group. With the latter, it forms the area known as the Ozark region. These rocks underlie a considerable portion of northeastern Missouri, but they are buried so deeply beneath a thick layer of clay that they can be seen only along the larger creeks and in a belt that extends northwestward and southeastward through Pike and Lincoln counties. (Figs. 8 and 10.)

Within this region, with the exception of the granite rocks, limestones predominate everywhere. They may be seen in almost every creek bluff. They contain a large amount of flint which does not decompose readily, and hence is left as loose rocks in the soil.

In some places in this region, particularly in Dent County, there are a few thin beds of sandstone, which, in places,



FIG. 9. In the granite area of the Ozark region. The underlying bed rock of these forested hills is all granite. Across the steeply rising face of the hills, where exposure has worn away the covering of mantle rock, the granite is plainly visible.



FIG. 10. A steep bluff on the Missouri River. Note how the limestone bed rock has been brought into view by the washing away of the loose mantle rock.

make the soil rather sandy. These rocks are unimportant, however, when compared with the limestones. The limestones are not all alike. Some of them are very coarse-grained and crystalline, some are fine-grained and non-crystalline, while

others are fine-grained and crystalline. Some are in thick, heavy beds, while others are in thin beds. In some places, small in area, they contain little flint, while in others they are very flinty.

The shale area includes most of northern Missouri and the northern part of south Missouri. All that part of the state lying north and west of the Ozark region is underlaid chiefly by shale, with some beds of limestone. Shale is a soft clay-like or sandy rock lying in very thin beds. When exposed in a steep bank it soon crumbles into clay or sandy clay. It may be seen in the creek bluffs in many places. (Fig. 8.)

The country underlaid by these rocks is covered with a somewhat thicker layer of soil except along the creek bluffs. The

rocks, therefore, are not seen often. If, however, one of the larger creeks of the region be followed for a few miles a bank probably will be found where the rocks are exposed.

The *sand-clay* area underlies the region in the southeastern part of the state. In most of this locality no strong rock is found until a depth of considerable extent is reached, often several hundred feet. (Figs. 8 and 11.)

**Climate.** Missouri lies near the middle of the north temperate belt, neither in the extreme south of the belt nor in the extreme north, and far enough removed from the ocean to have a continental climate; that is, a climate subject to sudden and great changes of temperature.

The prevailing winds are from the west or southwest. On account of Missouri's position with respect to the Gulf of Mexico, winds coming to the state from the south and east are warm and moist and cause either cloudy weather or rain. Westerly and northerly winds bring dry, cool, clear weather with invigorating air. (Adv. Geog. Figs. 90 and 92.)

The annual rainfall of Missouri averages about thirty-eight inches. It is greatest in the south, where it reaches an average of

about forty-six inches, and least in the northwestern corner where it averages less than thirty-five inches. (Figs. 12 and 13.) This rainfall is evenly distributed throughout the year, the greater amount occurring in the spring and summer months. (Fig. 14.)

The mean annual temperature of the state is 54 degrees. The average for January is 30 degrees and that for July is 77 degrees. (Fig. 14 and Adv. Geog. Figs. 82 and 84.)

**Animal Life.** The first settlers that came to Missouri found many wild animals, but civilization has exterminated much of the game.

In the southern part of the state may yet be found a few Virginia deer and an occasional black bear or a colony of beavers. Throughout the state the wildcat and panther have disappeared, but the fox, raccoon, opossum, squirrel, rabbit, and woodchuck are still common. Many birds stop in their migrations, and geese and ducks are numerous in season. The wild turkey, pheasant, and prairie chicken, formerly plentiful, are now seldom seen except in remote and thinly settled districts. The waters of Missouri contain many fish, and large quantities are taken yearly. The Mississippi River

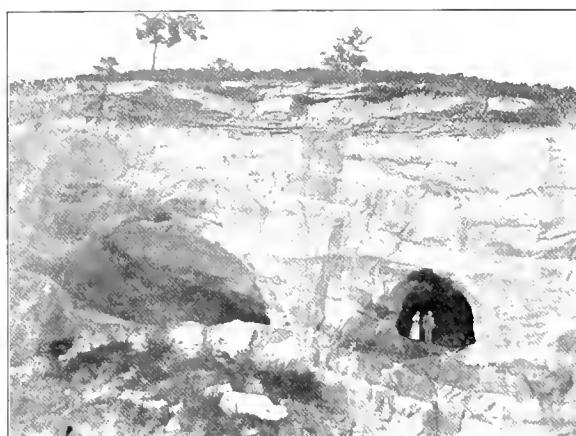


FIG. 11. Sand rock hills near Pacific. This rock crumbles rapidly and these hills yield annually immense quantities of valuable white sand used in the making of glass and in many other industries.

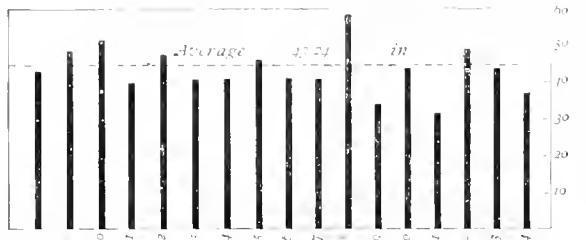


FIG. 12. The annual rainfall at Springfield, Mo., from 1888 to 1904.

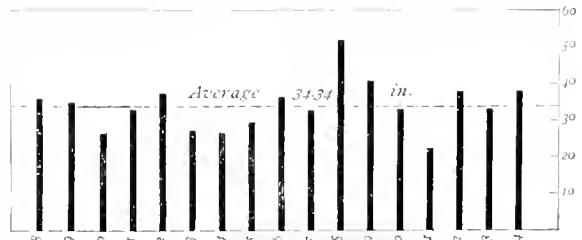


FIG. 13. The annual rainfall at Keokuk, Ia., from 1888 to 1904.

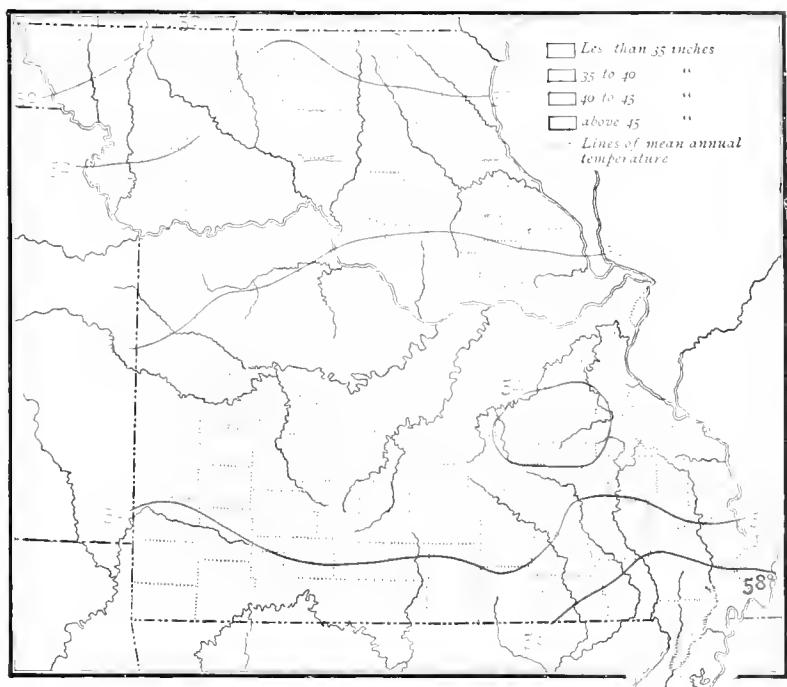


FIG. 14. *The mean annual rainfall and temperature of Missouri.*

is the chief fishing ground, but the Missouri and St. Francis rivers also afford good fishing. Under the State Fish Commission the industry is extending rapidly. The mussel fisheries also are important, about 2,000,000 pounds of shells being taken each year which are used in the making of pearl buttons.

**Native Peoples.** The first accounts furnished by the fur traders and missionaries who visited this region tell of the Indians living in the country of the Mississippi Valley. The tribes, known chiefly as the Missouri, Kansas or Kaw, and Osage, were members of the great Siouan family.

**History.** The first white men to report the Mississippi River were the remnants of De Soto's expedition, who in 1541 crossed to its western

shore in their wanderings. In 1673 Père Marquette, with Louis Joliet and five men, embarked at Green Bay, Wis., reached the Mississippi, and descended to the mouth of the Arkansas. In 1681 La Salle passed down the Illinois into the Mississippi, which he followed to its mouth, and in the name of the French king took possession of the Mississippi and all land drained by that river and its tributaries.

Early in the next century the French sent out an expedition to search for mines in the Mississippi Valley. The lead deposits at Mine la Motte were discovered in 1719. The first settlers were French fur

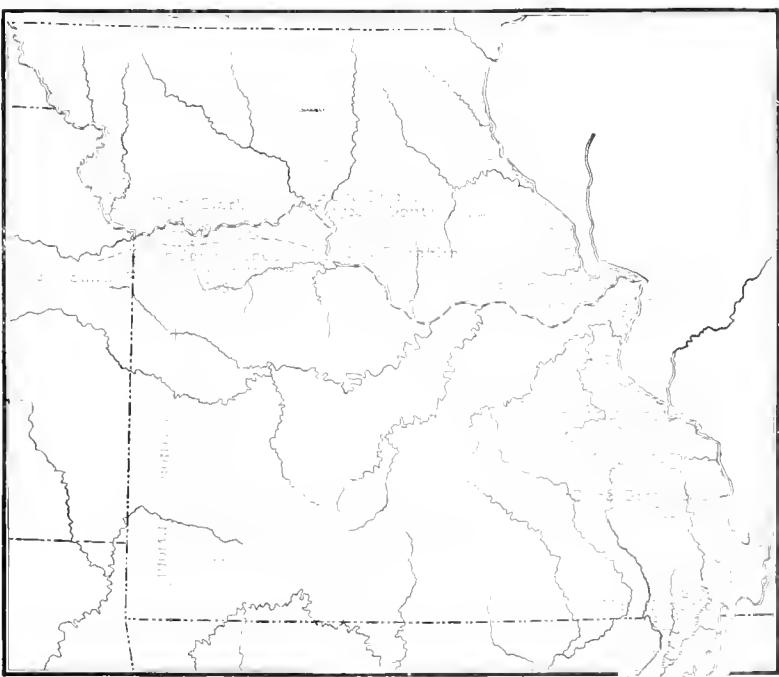


FIG. 15. *The earliest explorations and settlements in Missouri*

in the state, dating its founding from 1735. (Fig. 15.) France, having been defeated in war, ceded its territory east of the Mississippi to Great Britain in 1763, while the vast area west of the river was given to Spain. The first settlers in St. Louis were mostly French subjects, who, disliking the British, removed to that point from Illinois after the treaty of 1763.

In 1795 Daniel Boone led a band of Kentuckians across the Mississippi River and made a settlement near the Missouri in what is now St. Charles County. A steady stream of settlers poured in from Kentucky, Tennessee, Virginia, and other southeastern states, so that when Louisiana was purchased the population consisted largely of Americans.

Spanish rule ended in 1800, when domination again passed to France by the treaty of St. Ildefonso, and in April, 1803, the United States purchased from France all the territory of Louisiana for the sum of \$15,000,000.

March 10, 1804, the United States took formal possession of the new domain, which was divided into the Territory of Orleans and the District of Louisiana. The population of the latter, which was erected into the Territory of Louisiana in 1805, was about 10,000. Immigration followed the Louisiana Purchase, settlements spreading along each side of the Missouri River and up the Mississ-

sippi. In 1810 the population was 20,845. In 1812 the Territory of Louisiana became the Territory of Missouri. Progress was rapid and growth steady, so that in 1818 Missouri applied for admission into the Union. Then followed a struggle over slavery, and after two years Congress passed the "Missouri Compromise" bill, by which Missouri was admitted into the Union as a slave state, August 10, 1821. The population was more than 60,000. For many years the area that remained after the formation of the state continued to bear the name Missouri Territory. In the meantime it was gradually reduced as new territories were formed out of it.

The first Governor of the state was Alexander McNair, and the first capital was St. Charles, which remained the seat of government until 1826, when it was removed to Jefferson City. The state acquired its present limits in 1837 by the addition of the small triangle northwest of the Missouri River, called the Platte Purchase.

FIG. 16. Thomas Hart Benton, the most distinguished Missourian in the days of Jackson.



*From the original painting by Boyle now 1905, in the possession of the Missouri Historical Society, St. Louis, Mo.*

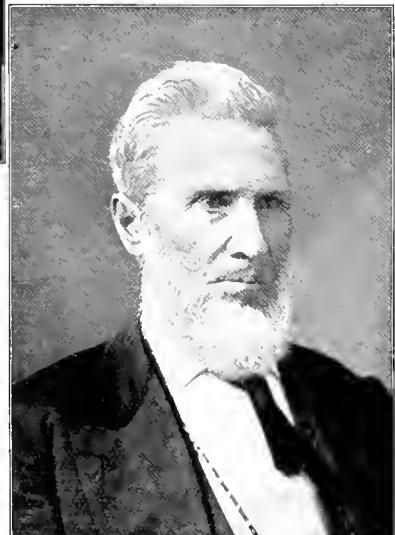


FIG. 17. Alexander Doniphan, leader of the famous brigade on the march to Mexico

Settlers continued to come in from the territory immediately south of the Ohio and east of the Mississippi rivers. Travel was mainly along the rivers, but in 1825 commerce with Mexico was of enough importance for Congress to survey the route for the Santa Fe Trail. Senator Benton, who represented Missouri in Congress during this period of growth, was an ardent friend

of western interests and one of the earliest advocates of a transcontinental railroad to the Pacific. (Fig. 16.)

About 1845 German immigrants began to appear, and within a very few years great numbers arrived. Since 1875 many people from New England and likewise from other of the northern states have settled in Missouri.

**The Mexican War.** During 1846, in response to the call of Governor Edwards, volunteers assembled at Fort Leavenworth, and Alexander W. Doniphan was elected colonel. (Fig. 17.) They were joined by regular troops, and, all under the command of General Kearney, also a Missouri man, they marched in June for Santa Fe, a distance of 900 miles, which they reached in fifty days and captured without firing a gun. Hitherto this place had been too strong for the Texans. General Kearney soon set out for California, leaving Doniphan in command at Santa Fe, but the latter marched to Chihuahua, 900

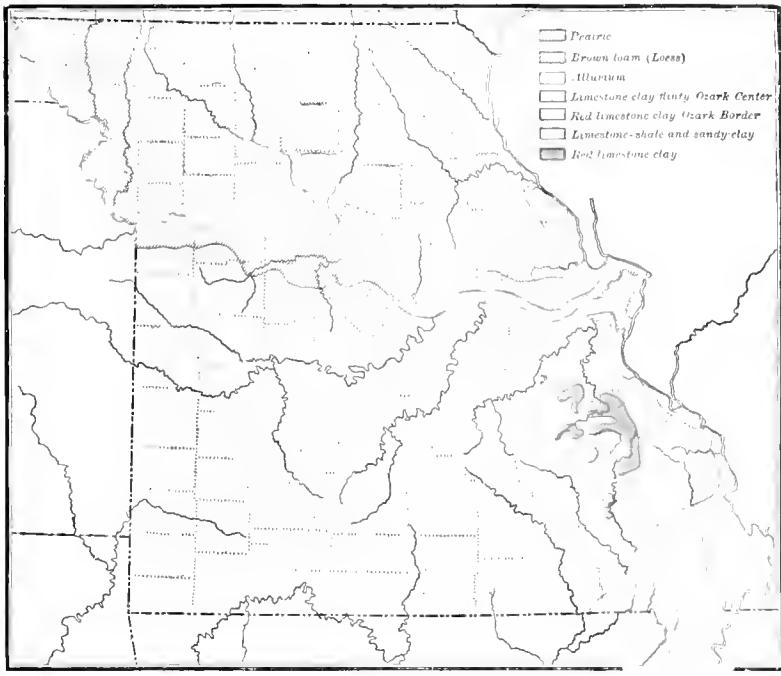


FIG. 18. *The distribution of soils in Missouri.*

miles distant, which place he took without serious opposition. The Missourians then returned home, having with a loss of less than fifty men prepared the way for the acquisition of New Mexico.

#### Agriculture.

Agriculture is Missouri's leading industry, the state's greatest and most lasting

source of wealth being her fertile soil. The soils of Missouri are varied in character and in a general way are of four different kinds. (Fig. 18.) The soils of the Ozark region are reddish clays intermixed with gravel and loose stones. When the amount of stone and gravel is small cultivation of the soil is easy and good crops are produced.

The soil of all northern Missouri is a clay loam with a clay subsoil, both practically free from stones. It is black in color and extremely fertile. The land is rolling or gently undulating, making cultivation easy.

The soils of the western part of south Missouri are much like those of northern



FIG. 19. *A farm scene in the high, rolling prairie region of northwestern Missouri. The lands of this section are highly fertile and here are some of the largest stock farms in the state.*

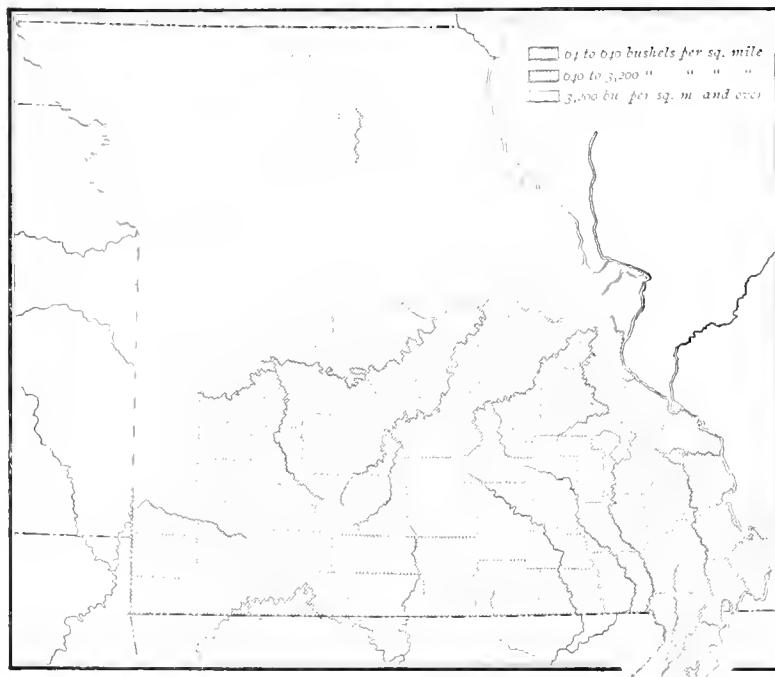


FIG. 20. *The production of corn per square mile.*

Missouri. The surface is, as a rule, even more nearly level than that of northern Missouri.

The soils of the southeastern lowlands are sandy in the eastern half and clayey in the western half of the region. They are very fertile, but the country being flat and its elevation low, a considerable portion of the region is still under timber.

Throughout the state all cereals flourish, but corn is by far the most valuable crop grown. Because of the extraordinary fertility of her soil and the favorable climate, one-tenth of all the corn produced in the United States is grown in Missouri. The value of her corn crop in 1903 was nearly \$70,000,000; wheat, \$15,000,000; oats, \$5,500,000; hay, \$31,690,000. (Figs. 20, 21, 23, and 25.) In 1900, 7,423,600

fruit growing, and good water and drainage, as well as favorable atmospheric conditions, insure liberal returns. There is not a county

acres of farm lands were devoted to corn, an acreage exceeding three times that planted to any other crop and embracing more than one-half the area under all crops. The highest yields are in the Missouri River basin and in the lowlands of the southeast. Flax, rye, broomecorn, clover seed, grass seed, and barley are profitably grown. Potatoes are an important farm product, having a yearly value of more than \$4,000,000, other vegetables yielding \$5,500,000 annually. (Fig. 27.)

**Horticulture.** Missouri stands high among the foremost horticultural states of the Union. A soil unexcelled for

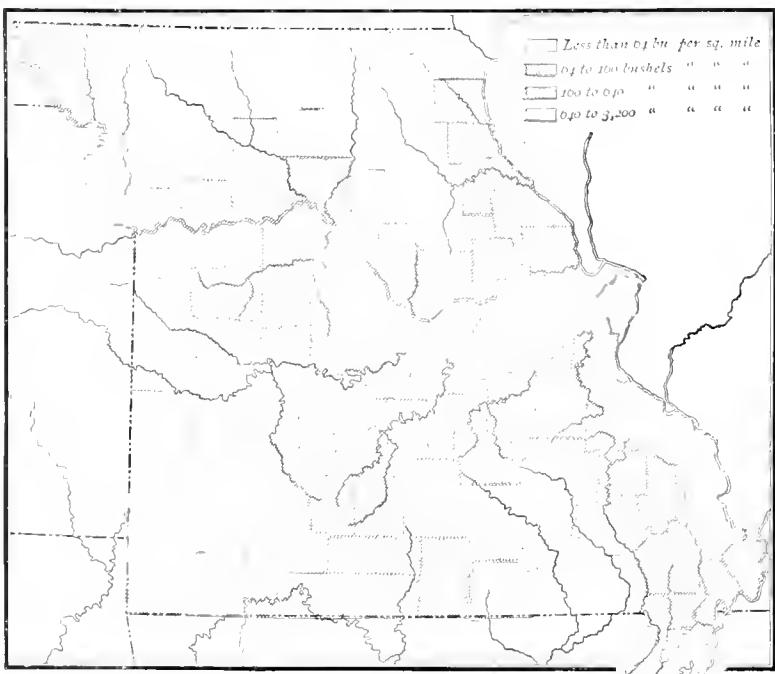


FIG. 21. *The production of wheat per square mile.*



FIG. 22. An apple orchard in Lafayette County in bloom. Here, along the Missouri River where the loess soil is of extraordinary fertility, are some of the largest and most productive apple orchards in the state.

in the state in which fruit cannot be successfully and profitably grown. The Ozark plateau and the loess region along the great rivers are especially adapted to orcharding, while southwest Missouri is famous for its small fruits. The state now has 25,000,000 apple trees, and her orchards and nurseries are among the largest in the world. (Figs. 22 and 69.)

Missouri also ranks high as a grower of peaches, and her commercial orchards, some containing hundreds of thousands of trees, rank with the largest in the country. Ozark peaches are widely known for their superiority. (Fig. 24.) The total yield of apples in 1900 was

about 6,500,000 bushels and of peaches 4,500,000 bushels. Of her berry crop 13,000,000 quarts of strawberries and 5,000,000 quarts of blackberries formed the largest items. Grapes are grown abundantly, especially on the hills. In 1900 the value of the fruit crop in Missouri was \$4,000,000. (Fig. 26.) This sum has been increased enor-

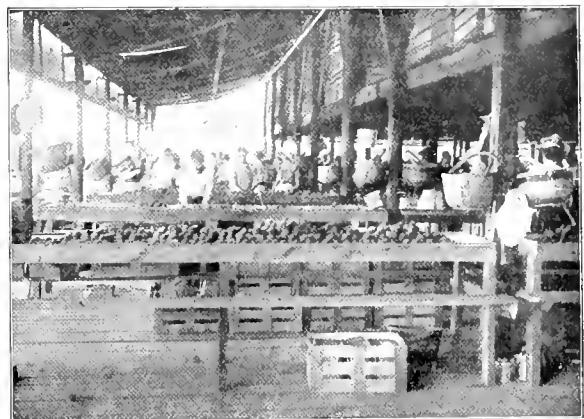


FIG. 24. Packing peaches for market, Koshkonong, Oregon County. Horticulture leads all industries in this county, which contains the largest peach orchard in the state, the number of trees exceeding 100,000.

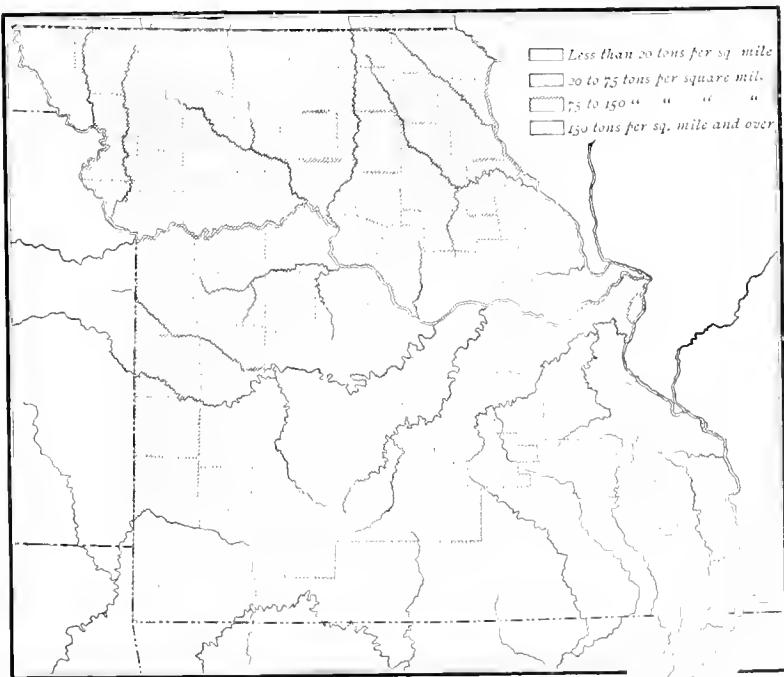


FIG. 23. The production of hay and forage per square mile.

mously by the products of large areas under orchards and small fruits that have come into bearing since that time. The State Horticultural Society, for nearly a half century, has disseminated knowledge on fruit culture, and Missouri, at Mountain Grove, maintains the

only exclusive Fruit Experiment Station in the country.

#### Live Stock and Dairying.

Missouri is one of the foremost live-stock states in the Union. This is due not only to her fertile, well watered pastures, the large quantities of grain and forage grown, and a highly favorable climate, but likewise to the fact that the state is surrounded on all sides by good markets for her surplus products. Exclusive of barns and other equipment, the live-stock interest was valued in 1903 at \$200,000,000, the state being excelled only by Texas, Illinois, Iowa, and Kansas. Missouri stock is of high grade, and every important breed is represented in her herds. The great extent of well watered grazing lands and the large grain crops encourage alike the breeding of

cattle, horses, and hogs. Missouri, with 3,060,000 cattle and more than 1,000,000 horses, stands among the leading cattle and horse states. (Figs. 29, 30, and 32.) It is surpassed only by Iowa and Illinois in the number of its hogs, of which there are in the state nearly 5,000,000. (Figs. 28 and 31.)

Mules that are widely known for their superiority are bred largely for shipment and Texas alone rivals Missouri in numbers. (Fig. 29.) There are to-day, 1905, about one million sheep in the state. In Missouri the breeding of Angora goats has attracted considerable attention and the industry has been successfully established in a number of localities. (Fig. 33.) With a total of 157,472, Missouri has more live-stock farms than any other state in

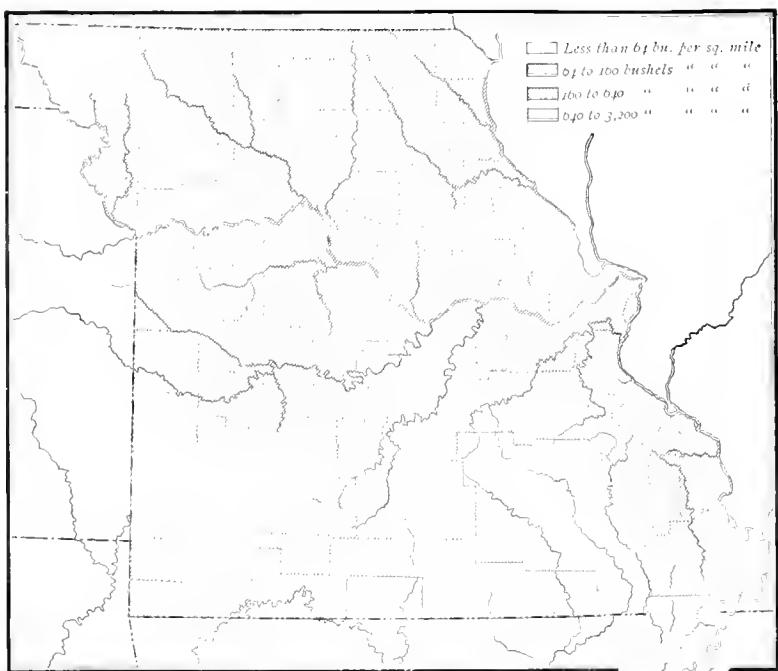


FIG. 25. *The production of oats per square mile.*

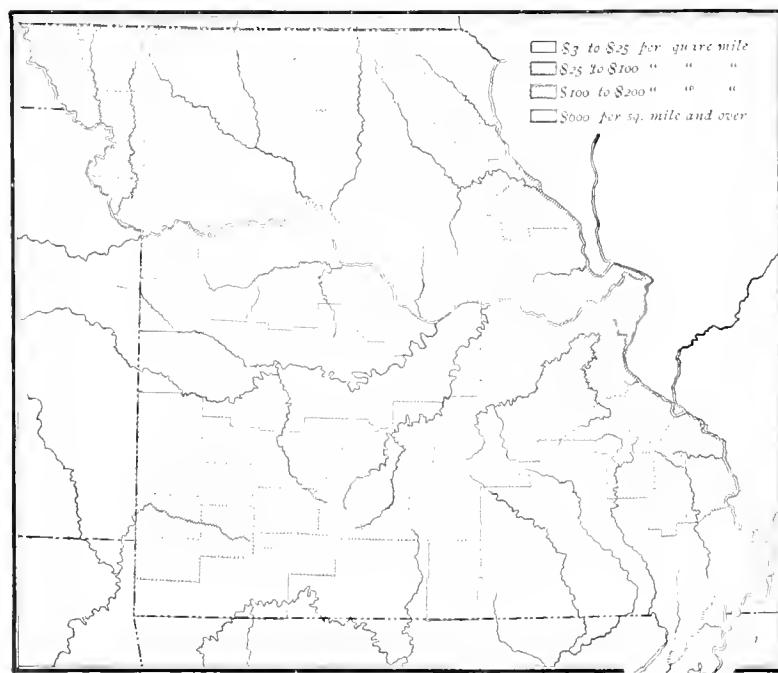


FIG. 26. *The value of fruit per square mile.*

the Union. The average annual yield from these farms is \$6.86 per acre, while the average for the whole United States is but \$5.12 per acre.

Dairying is one of the most lucrative divisions of the livestock industry. There are in the state more than 750,000 dairy cows which yield annually nearly 260,000,000 gallons of milk, the total value of the dairy products being about \$15,000,000. The Missouri State Dairy Association and the dairy work done at the State Agricultural College have aided greatly in the development of the industry. Plants yielding food for the honeybee abound, and Missouri, with an annual product of more than 3,000,000 pounds of honey, ranks third in production.

**Poultry Raising.** Where natural condi-

tions are so favorable and grain production so large poultry is sure to flourish. Hence this is an important and rapidly growing industry, and one in which Missouri leads the country. There are in the state between fifteen and twenty million chickens, at least 500,000 turkeys, as many geese, and 300,000 ducks. The value of the poultry products for the year is about \$18,000,000. (Fig. 34.)

**Mineral Resources.** Missouri has a wealth of mineral resources. The chief minerals are lead, zinc, and coal. The lead and zinc mines are all in the Ozark region, in three districts—the southeastern, the central, and the southwestern—in which either one or both ores are mined. (Fig. 37.)

The southeastern, which is the largest of these districts, lies

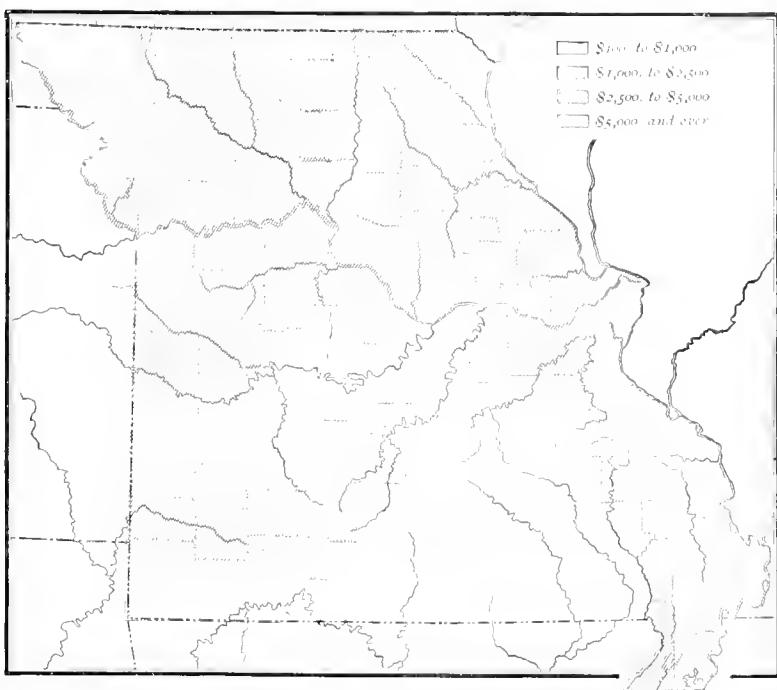


FIG. 27. *The value of farm products per square mile.*

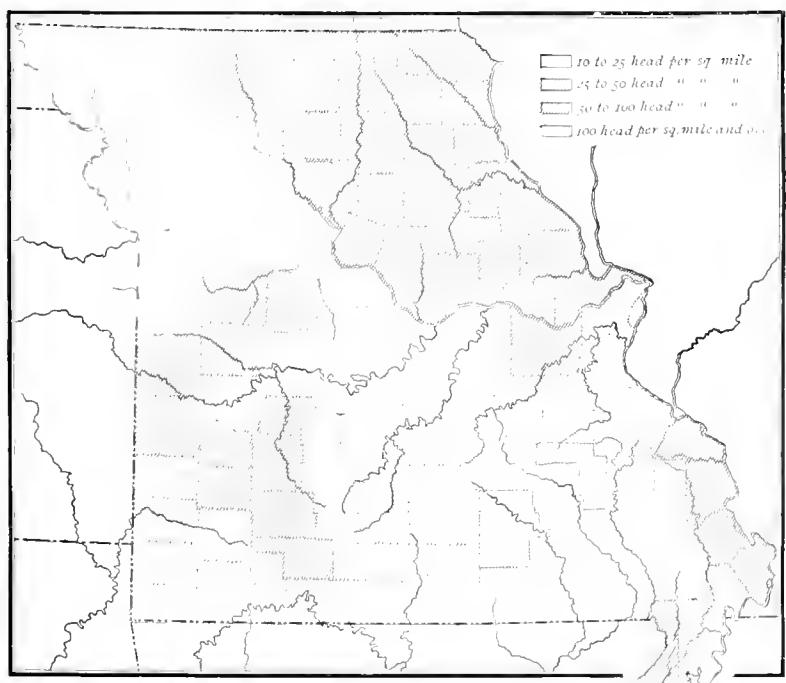


FIG. 28. *The distribution of hogs per square mile.*

in St. François, Madison, Washington, Franklin, and Jefferson counties. Lead is the only ore mined in this district. At the present time most of the lead ore comes from St. François and Madison counties. The ore occurs as little lumps and specks scattered through solid limestone rock. For this reason it is called *disseminated* ore. It is found in mines from 200 to 500 feet beneath the surface. The rock containing the ore is blasted out, raised to the surface, and crushed almost to a powder. It is then carried by running water through a great many boxes. This process washes away the lighter limestone pieces, leaving finally

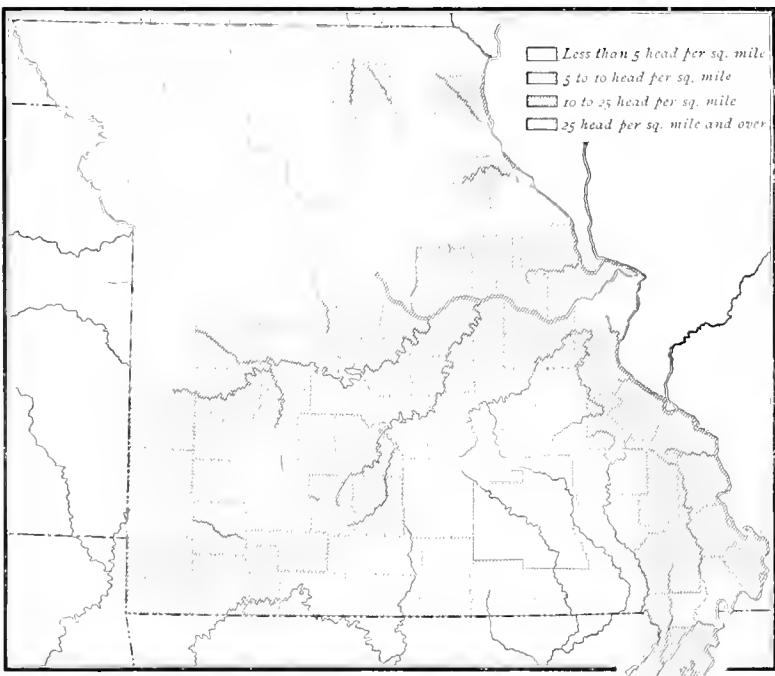


FIG. 20. *The distribution of horses, mules, and asses per square mile.*



FIG. 30. *Scene at a horse market, Kansas City. Missouri is an important source for horses. One of the four purchasing stations for Government horses is located at Kansas City and another is at St. Louis.*

only the clean, heavy lead ore, which is as fine as sand and clay. This is shipped out in canvas bags.

The central lead and zinc district lies in Moniteau, Cole, Miller, Morgan, and Camden counties. Once a great deal of ore was mined here, but now only a few small mines are running. The largest of these mines is at Fortuna, near the line between Morgan and Moniteau counties. The ore in

this district occurs in pockets in clay and in broken pieces of rock. Most of the mines are shallow.

The southwestern lead and zinc district, which includes Jasper, Newton, Lawrence, and Greene counties, is very rich. It is the richest zinc region in the country, yielding about four-fifths of all the zinc ore produced in the United States. The producing mines lie chiefly in Jasper, Newton, and Lawrence counties. (Fig. 36.) Small amounts of lead and zinc ore have been mined in Barry, Stone, Christian, Taney, and Dade counties.



FIG. 31. *Hogs in a blue grass pasture, Marion County, a staple and profitable farm product.*



FIG. 32. Scene on a Missouri stock farm. Last feed on the farm before going to market.

The mines in Jasper, Newton, and Lawrence counties are, as a rule, not so deep as those in the southeastern district. (Fig. 35.) The ore occurs usually in *open ground*, not in solid rock. In some mines it is found in layers between the beds of rock, both lead and zinc being found in the same mine. When the mines were first worked there was no demand for the zinc ore, so it was thrown aside and not used. When a demand arose for it this ore was collected and sold, and now zinc ore constitutes the principal product of the mines.

Several years ago southern Missouri had a great many iron mines and iron furnaces and was an important iron producer. Now the only furnace in the state smelting Missouri iron ores is one in Dent County. This is because the famous old iron mines, like Iron Mountain, Pilot Knob, and Simmons Mountain, have become exhausted, and no new paying mines have been discovered.

Copper occurs in a number of counties. It was worked as early as 1837. The ore is now mined and smelted at Sullivan, and deposits at other points are attracting attention.

The coal fields of Missouri occupy a belt running diagonally across the state from northeast to southwest. The eastern line of this belt extends rather irregularly from the northwestern corner of Jasper County to Glasgow; thence it extends nearly southeastward to Fulton and then northward to Lancaster. The western boundary of the belt extends very irregularly from the southwestern part of Bates County northeastward, meeting the state line in Putman County. West of the belt included between these two



FIG. 33. A group of prize Angora goats. The goats are bred for their fleece, which is known as mohair and is used in making plush and dress goods.



FIG. 34. A poultry farm in southwestern Missouri. Poultry raising is a profitable and widely established industry in the state.

lines a few mines exist, but east of it there are no mines of any importance.

Within this belt there are three coal-mining areas, which we shall call the southwestern, the central, and the northern regions. The center of the



FIG. 35. Mining scene at Aurora, a busy lead and zinc mining town in Lawrence County, one of the important mineral counties of the state.

southwestern region is Rich Hill, that of the central, Lexington, while the northern and larger region has several important centers, among which are Huntsville, Bevier, Novinger, and Mendota.

The coal beds embraced in the southwestern region are about two and one-half feet thick, in the central region they are about one and three-fourths feet thick, and in the northern region the beds are from about two and one-half to five feet thick. (Fig. 37.)

The coal product of Missouri is an important one, and her resources are such that her coal-mining industry will continue to exist for a long time. Up to the present time the market for Missouri coal has been west of the mining region.

**Manufacturing.** Manufacturing is an

industry confined chiefly to cities and towns, and its success depends upon the presence of raw materials near at hand, cheap and abundant fuel and food, and good transportation facilities. In all these things no other commonwealth excels Missouri, which leads all

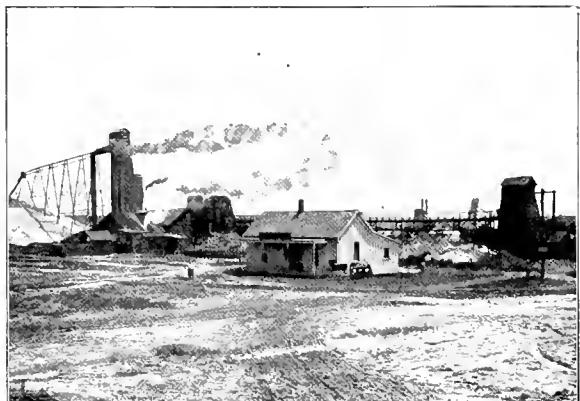


FIG. 36. A mine in the southwestern lead and zinc district. The zinc ores of this district are widely known for their richness and it is one of the world's chief sources of supply for zinc.

states west of the Mississippi and ranks fifth in the Union in manufactures. (Fig. 42.) St. Louis, the fourth city in size in the United

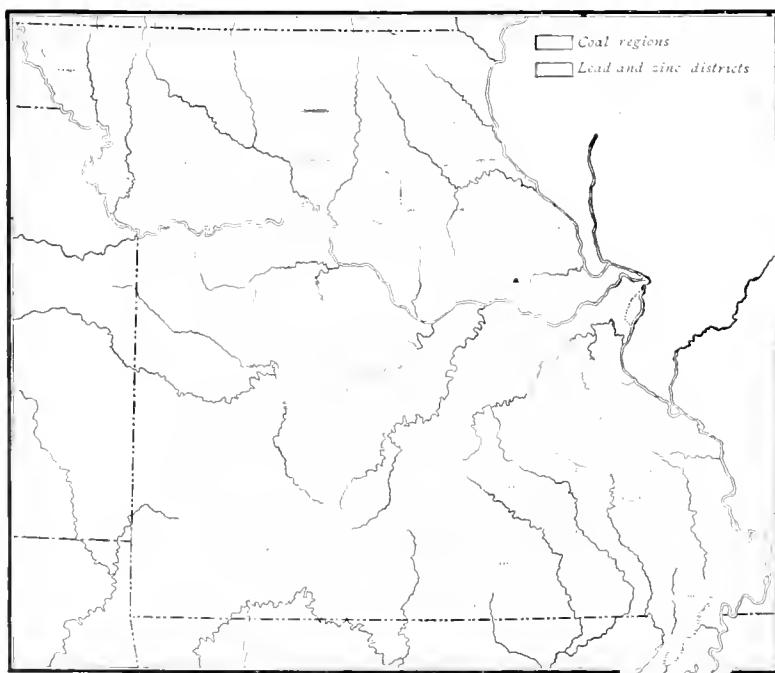


FIG. 37. The distribution of lead, zinc, and coal.

States, is likewise fourth in manufacturing, producing in 1900 goods amounting to \$233,000,000. In the manufacture of some things, such as tobacco and boots and shoes, St. Louis has few if any rivals; Kansas City, second in population in the state, has a yearly product valued at

\$36,000,000; St. Joseph, the third city, annually manufactures products worth \$31,000,000; Springfield, the fourth city, has for its leading industry the manufacture of flouring and grist-mill products. (Figs. 43 and 44.) While there are 250 kinds of manufactures in the state, the principal

products, in the order of their capital value, are malt liquors, foundry and machine shop, and flouring and gristmill products, lumber and timber, printing and publishing products, tobacco, slaughtering and meat-packing supplies, men's clothing, brick and tile, railroad cars, boots and shoes, carriages and wagons. (Figs. 39, 41, 45, and 46.) Inexhaustible deposits of excellent lime rock and fine sand have made profitable the minor industries of making lime, glass, and cement. (Figs. 11, 38, and 40.)

**Transportation.** The development of a country depends largely upon its facilities for transportation. Good roads or other



FIG. 38. Lime works in Marion County. Valuable deposits of suitable stone and shale have made this county one of the chief centers of production for lime and Portland cement.

efficient means of transportation are necessary for communication and for carrying on trade. The Mississippi and Missouri rivers were in early days the principal channels of travel and traffic, but with the building of railroads a better means of transportation was offered, and the rivers

have lost their supremacy. River traffic, however, between St. Louis and the Gulf is still large. (Fig. 47.) The state is traversed in all directions by railroads, the chief centers being St. Louis, Kansas City, and St. Joseph. In 1860 there were 817 miles of railroad in Missouri. By 1880 this mileage had grown to 3,960, and to-day exceeds 7,700 miles.

**Banks.** Banks are a necessary factor in industrial life, and Missouri leads in the number of state banks and is seventeenth in the number of national banks. The deposit per capita of the citizens is \$138.81.

**The State Government.** The first constitution was adopted in 1820, and, as the state



FIG. 39. Loading railroad ties for shipment. Ties are a leading product in lumber districts convenient to transportation and an important item in the trade of the nearby towns.



FIG. 40. A sand dredge at work. Sands valuable for glass making and for building purposes are widely distributed in Missouri and are utilized largely in these industries.

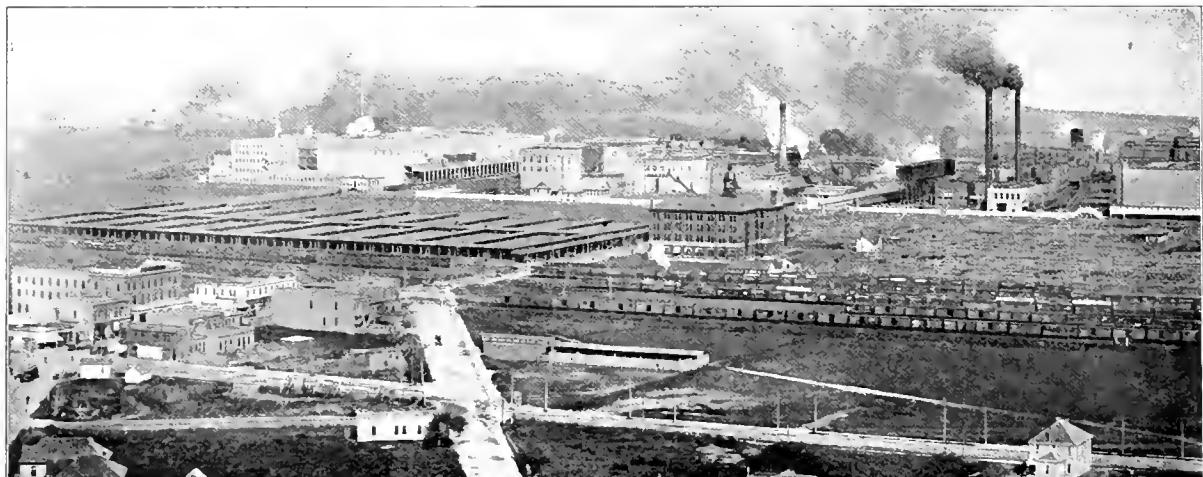


FIG. 41. A general view of the stock yards at St. Joseph. Missouri in recent years has profited enormously by the steady trend of the slaughtering and meat-packing industry toward the corn belt and the cattle country, and by 1900 it had become the leading industry in the state.

developed, another better adapted to the needs of the citizens was adopted in 1865. The present constitution was adopted in 1875.

The government is divided into three parts—the Executive, the Legislative, and the Judicial. The Executive consists of the Governor, Lieutenant-Governor, Secretary of State, State Auditor, State Treasurer,

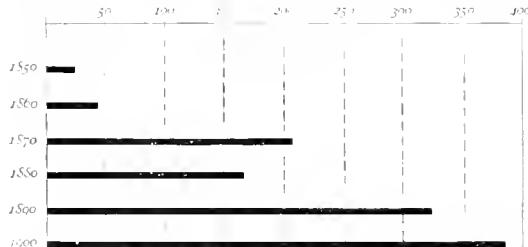


FIG. 42. Growth of manufacturing industries in Missouri, shown by value of products, in millions of dollars, at each Federal census 1850 to 1900.

Attorney-General, and Superintendent of Public Schools, all of whom are elected by the people for terms of four years.

It is the duty of the Governor to see that the laws are faithfully executed. He is commander-in-chief of the militia. He may grant commutations, reprieves, and pardons, and appoint many officials with the consent of the Senate. The Lieutenant-Governor is ex-officio President of the Senate, and he succeeds the Governor in case of death,

disability, or removal from office. The State Treasurer receives and keeps the money of the state and pays it out on warrants

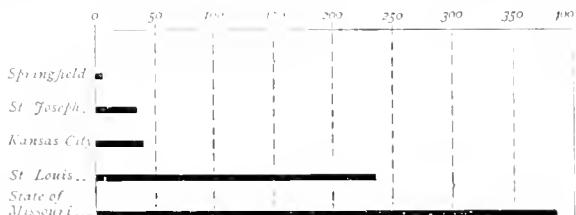


FIG. 43. Value of manufactured products in millions of dollars, census of 1900.

drawn upon the treasury. The State Auditor keeps the state accounts and enforces the payment of all claims due the state.

The chief source of the state revenue is the general property tax. A State Board of Equalization, consisting of the Governor, State Auditor, State Treasurer, Secretary of State, and Attorney-General, adjusts and

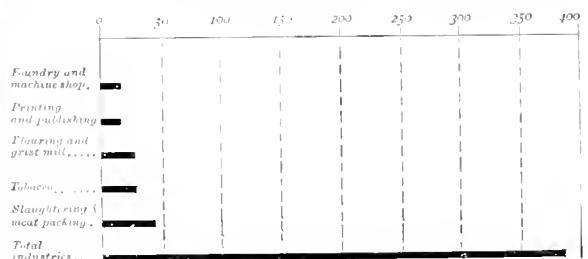


FIG. 44. Value of special manufactured products in millions of dollars, in Missouri, in 1900.

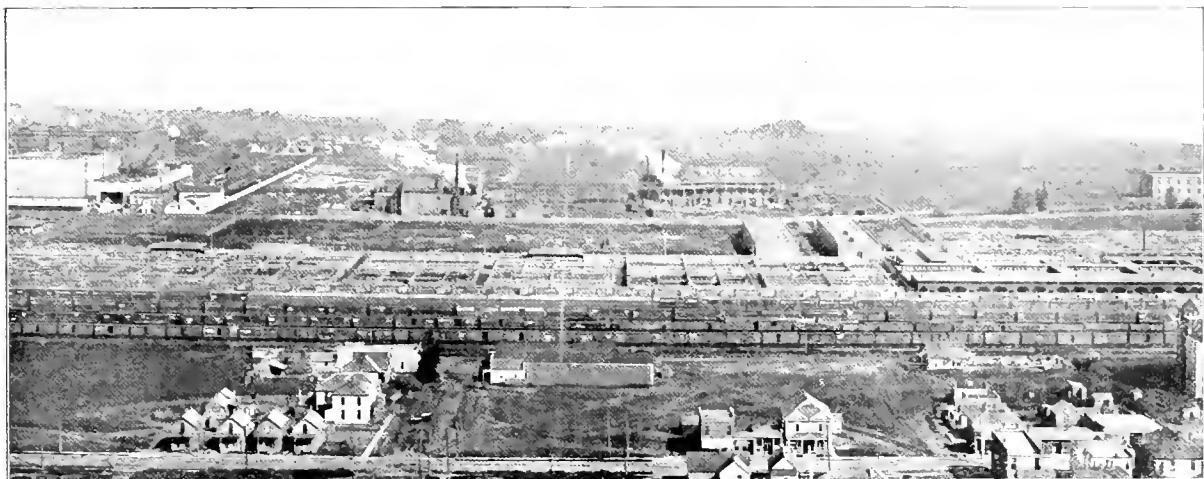


FIG. 45. *St. Joseph the center of a wide area devoted to corn and stock raising, and with the added advantages of excellent transportation leads the state in slaughtering and meat packing. The products of its establishments in recent years have increased at an astonishing rate.*

equals valuations among the several counties. This Board also assesses the property of railroad, telegraph, telephone, and bridge companies.

The Secretary of State has charge of the public records and acts of the General Assembly, and is custodian of the state seal, is registrar of lands, and superintends the examinations of state banks and trust companies. The Attorney-General is prosecuting attorney and chief legal adviser for the state. The State Superintendent of

Schools directs the public schools of the state, exercises supervision over the school funds, and may grant certificates to teachers.

In addition to the officers already named, there are railroad commissioners who are elected by the people, and various other

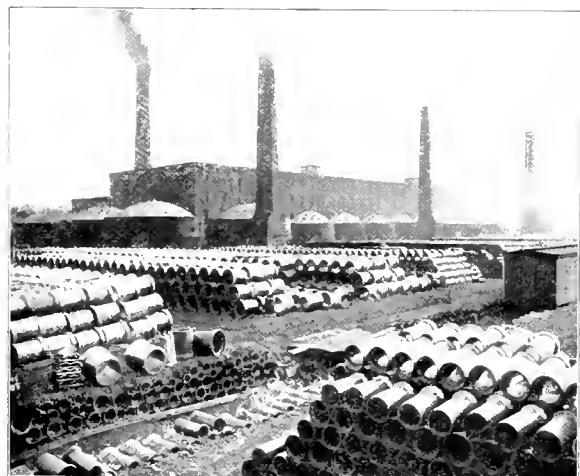


FIG. 46. *A clay-working plant Deepwater, Henry County. Deposits of valuable clays have made the manufacture of clay products important industries in this county. Notice the sewer pipe awaiting shipment.*

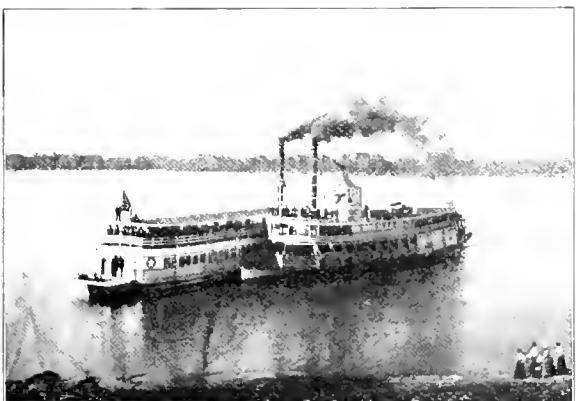


FIG. 47. *A steamboat on the Mississippi River.*

officers who are appointed by the Governor. Among the last mentioned are the Adjutant-General, Superintendent of Insurance, Curators of the University, Regents of Normal Schools, and Board of Managers of the state charitable and penal institutions.

Each county elects officers to administer the local government. The highest officer in the county is the sheriff. The prosecuting

attorney in each county represents the state in criminal prosecution and is legal adviser for his county. A constable is elected in each township, and police officers are appointed in towns and cities. The local government of cities and towns consists of a mayor and council or

board of aldermen, city attorney, treasurer, auditor or comptroller, and police officers.

The legislative or lawmaking power is vested in the General Assembly, which meets in Jefferson City every two years. (Fig. 65.) Its members are elected by the people, and at present number thirty-four Senators, elected for four years, and 142 Representatives, elected for two years. (Fig. 48.)

The judicial department consists of a Supreme Court, courts of appeal,

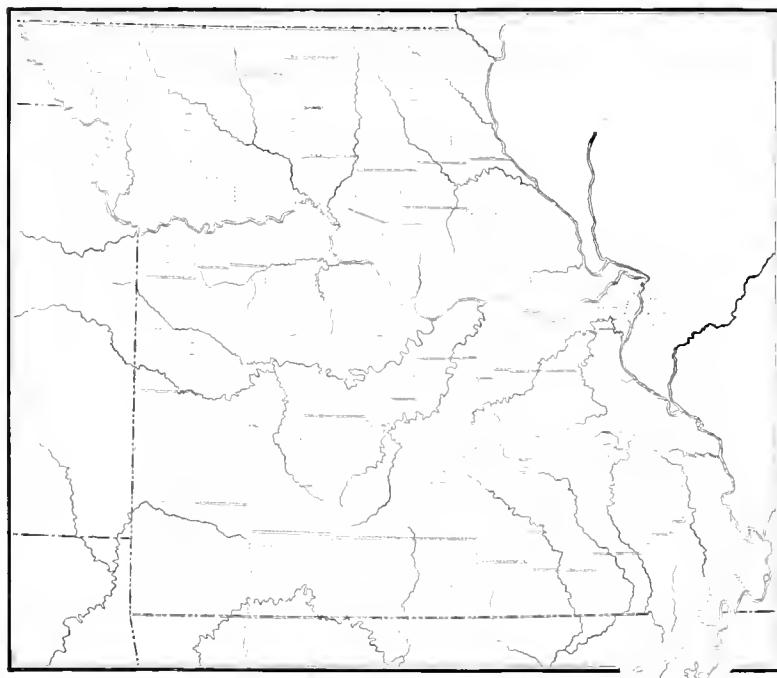


FIG. 48. *The congressional districts of Missouri, 1904*

circuit courts, criminal courts, county courts, probate courts, and justice courts. Their purpose is the enforcement and administration of law. The Supreme Court is composed of seven judges, each of whom is elected for ten years at a salary of \$4,500 per year.

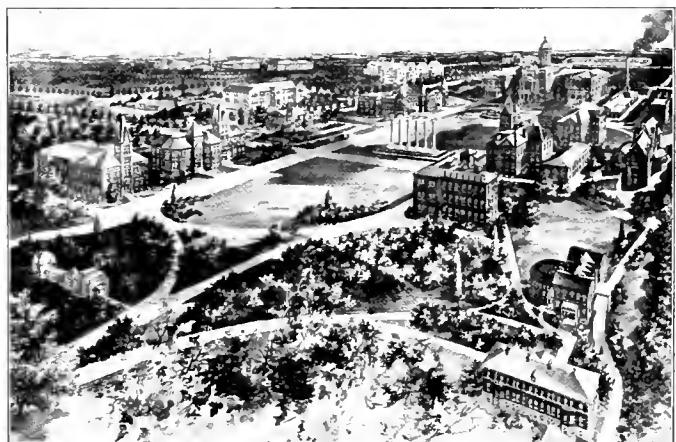


FIG. 50. *A general view of the State University at Columbia.*

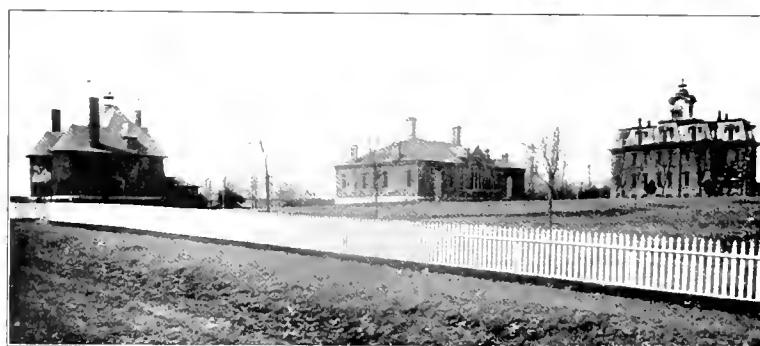


FIG. 49. *The School of Mines at Rolla.*

**Penal Institutions.** There is a penitentiary for both men and women located at Jefferson City, a state Training School for Boys at Boonville, and a state Industrial Home for Girls at Chillicothe.

**State Charities.** There is a school for the blind in St. Louis,

a school for the deaf and dumb at Fulton, and the Missouri Colony for Feeble Minded and Epileptics at Marshall. Missouri has four state hospitals for the insane, located respectively at St. Joseph, Fulton, Farmington, and Nevada. There is a Federal Soldiers' Home situated at St. James, and a Confederate Soldiers' Home at Higginsville.

**Education.** Missouri early made liberal provision for public schools and to-day has a permanent productive school fund that exceeds \$13,000,000. The first constitution not only made ample provision for schools, but likewise called the attention of the Legislature to the need of a state university; the second constitution repeated and emphasized the statements of the first. The growth of the public school system has been rapid and substantial, and the per cent of illiterates in Missouri has decreased steadily. The State University, founded in 1834 at Columbia,

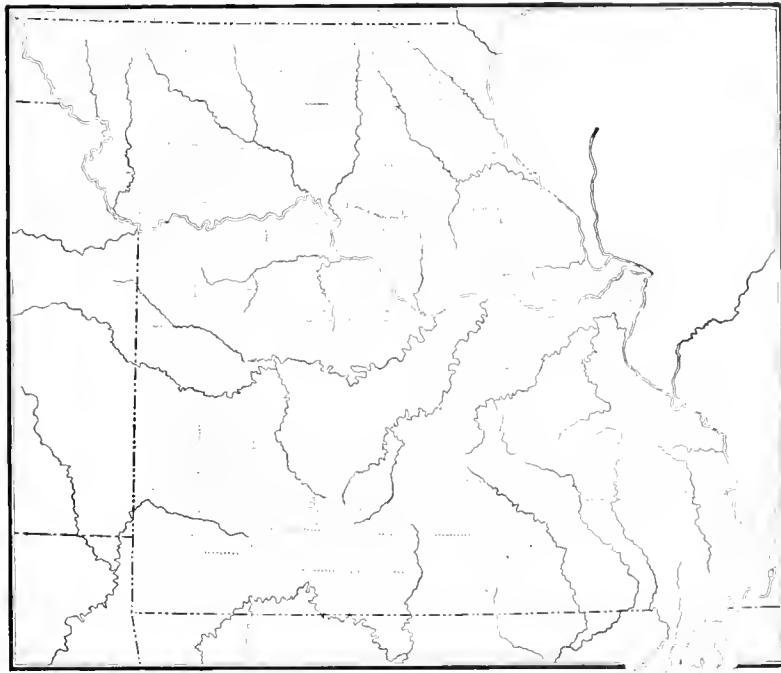


FIG. 51. *The location of the leading educational institutions of Missouri.*

stands at the head and is the outgrowth of the public school system.

It has seven well equipped departments, with an annual attendance of about 1,700. (Fig. 50.) At Rolla is the School of Mines and Metallurgy, a department of the State University and an outgrowth of

the mining interests of the state. (Fig. 49.)

There are six normal schools. The oldest, founded in 1867, is at Kirksville (Fig. 53); the others are located at Warrensburg (Fig. 52), Cape Girardeau (Fig. 54), Springfield, Maryville, and at Jefferson City, where is located Lincoln Institute, for the training of colored teachers. About 3,000 students are in attendance annually at the normals.

The State Board of Education is composed of the State Superintendent of Public Schools, the Governor, the Secretary of State, and the Attorney-General. The state has school property worth \$42,600,000, an enrollment of

#### THE LEADING EDUCATIONAL INSTITUTIONS OF MISSOURI

COLLEGES AND UNIVERSITIES	
1 Southwest Baptist College, Bapt., Bolivar.	9 Pritchett College, non-sect., Glasgow.
2 Missouri Wesleyan College, M. E., Cameron.	10 La Grange College, Bapt., La Grange.
3 Christian University, Christian, Canton.	11 Willam Jewell College, Bapt., Liberty.
4 Christian College, Christian, Columbia.	12 Missouri Valley College, Cumb. Presb., Marshall.
5 Stephens College, Bapt., Columbia.	13 Hardin College, Bapt., Mexico.
6 University of Missouri, State, Columbia.	14 Park College, Presb., Parkville.
7 Central College, M. E. So., Fayette.	15 Christian Brothers College, R. C., St. Louis.
8 Westminster College, Presb., Fulton.	16 St. Louis University, R. C., St. Louis.

17 Washington University, non-sect., St. Louis.	18 Drury College, Cong., Springfield.
	19 Tarkio College, U. Presb., Tarkio.
	20 Central Wesleyan College, M. E., Warrenton.
PUBLIC NORMAL SCHOOLS	
	21 State Normal School, Kirksville.
	22 State Normal School, Warrensburg.
	23 State Normal School, Cape Girardeau.
	24 State Normal School, Jefferson City.
	25 State Normal School, Springfield.
	26 State Normal School, Maryville.

731,410 pupils with 17,030 teachers, 282 high schools, 9,380 rural, and 1,594 city and town district schools.

There are also a number of private schools for higher education that are doing excellent work. Among these are Washington University and St. Louis University at St. Louis, Central College at Fayette, William Jewell College at Liberty, Westminster College at Fulton, Christian Brothers College at St. Louis, St. Vincent's College at Cape Girardeau, Drury College at Springfield, Missouri Valley College at Marshall, and Park College at Parkville. (Fig. 51.)



FIG. 53. *The First District Normal School of Missouri, at Kirksville.*

**Art and Literature.** In a new community the material side develops first; but with improved conditions come intellectual and artistic growth. Along these lines Missouri has made an excellent beginning, as is attested by the fine libraries and art galleries to be found in St. Louis and Kansas City. Among her artists the most widely known is George C. Bingham. The state publications include 1,000 newspapers and magazines. The greatest American humorist, Samuel L. Clemens ("Mark Twain") is a native of Missouri, and Eugene Field, "the



FIG. 52. *The Second District Normal School of Missouri, at Warrensburg.*

children's poet," also was born and reared in this state. (Figs. 67 and 68.)

**Religion.** The first settlers in Missouri were French Catholics from Illinois. The Spanish

commandants were of the same faith. Immigrants who came later from Virginia and Kentucky were chiefly Protestants. The first religious service of which there is any record was in 1760, and the first church edifice (Catholic) was built in 1770 in St. Louis.

#### THE LEADING RELIGIOUS DENOMINATIONS

CHURCH	Organized or Founded	Communicants or Members
Baptist	1799	150,000
Catholic	1760	202,000
Christian	1820	175,000
Congregational	1855	11,000
Cumberland Presbyterian	1820	30,000
German Evangelical	1840	20,000
German Evang. Lutheran	1847	30,000
Methodist	1806	200,000
Presbyterian	1814	40,000
Protestant Episcopal	1819	12,000

The first Protestant preacher of whom there is any record crossed and recrossed the Mississippi in his skiff to preach to the pioneers near Jackson, in Cape Girardeau County. This was in 1770. And in 1806 the first Protestant church was built and dedicated.



FIG. 54. *The Third District Normal School of Missouri, at Cape Girardeau.*

## II. THE GROWTH AND DEVELOPMENT OF CITIES.

**Gain in Population.** In recent years there has been a remarkable growth in the urban population of Missouri at the expense of the rural. Between 1890 and 1900, the gain in total population in Missouri was 15.95 per cent, the gain in rural 3.64 per cent, while the gain in urban population during the decade was 34.54 per cent. In 1900 out of a total population of 3,106,665, 46.23 per cent, or nearly one-half of the whole, resided in urban centers. (Figs. 55 and 56.) There were in the state in 1890 twenty-nine incorporated cities and towns having a population of 4,000 or more. By 1900 this number had grown to thirty-five, the aggregate population of these urban centers being 1,084,014, or more than one-third of the total within the state. This great advance in urban population is due largely to the immense growth of agricultural and manufacturing industries and to the development of vast mineral resources within the state, conditions creating demands for new markets as outlets for increased products or as centers of supply

FIG. 55. *The density of population per square mile in Missouri, at each census.*

(Figs. 55 and 56.) There were in the state in 1890 twenty-nine incorporated cities and towns having a population of 4,000 or more. By 1900 this number had grown to thirty-five, the aggregate population of these urban centers being 1,084,014, or more than one-third of the

for growing industries. The population figures given in connection with the cities which follow are from the Twelfth Federal Census.

**St. Louis** (575,238), the oldest and largest city of the state, lies on the Mississippi River about twenty-one miles below the mouth of the Missouri, a situation that offered excellent facilities for the development of trade. The area of the city embraces about sixty-two square miles, with a water front of about twenty miles. Its situation is beautiful, and the city, handsomely and substantially built, contains many fine public and private

buildings, miles of well paved streets, and a most efficient street railway system. (Figs. 57, 58, and 60.)

St. Louis ranks fourth among the great cities of the Union in population and manufactures, and, among the cities of the Mississippi Basin, with the exception of Chicago, is without a rival as a commercial, manufacturing, and financial center. The city owed its settlement and early development to the fur trade, which at once made it the center of distribution for the western country. In 1763 Pierre La Clede and Auguste Chouteau opened a fur-trading station

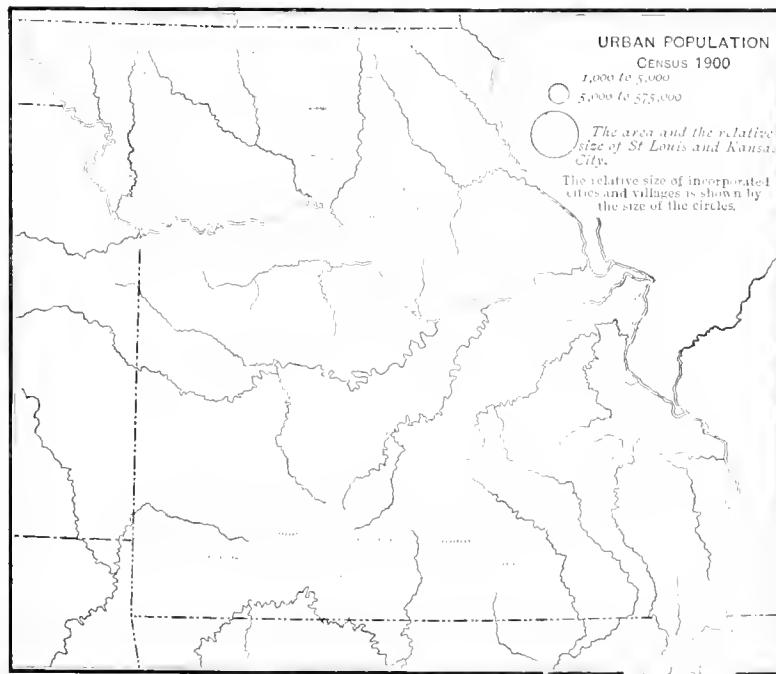


FIG. 59. *The distribution of urban population in Missouri, census of 1900.*

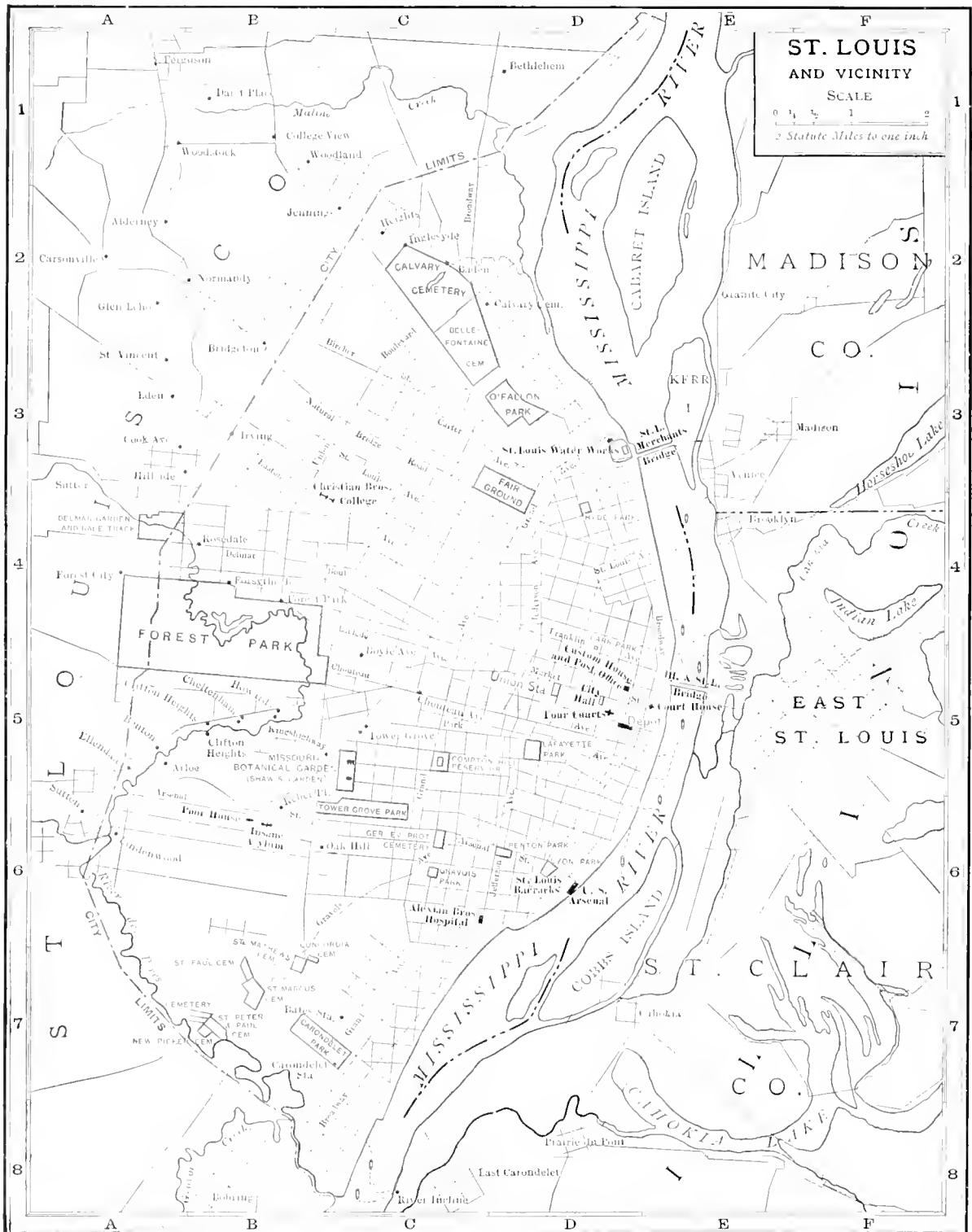


Fig. 57. Map of the city of St. Louis and Vicinity.

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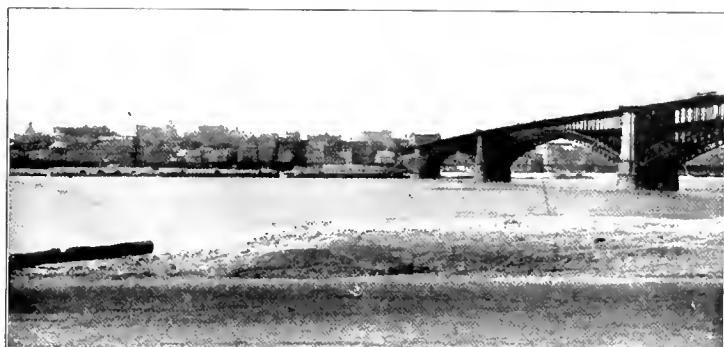


FIG. 58. *The water front, St. Louis, as seen from the shore at East St. Louis. Note the great Eads bridge on the right.*

on the site where the city now stands. Thrifty and industrious French immigrants speedily gathered around them, traffic extended rapidly, and the community soon became a prosperous French settlement. Following the Louisiana Purchase in 1803, came Americans from Virginia, Tennessee, and the Carolinas. Later came people from England and Germany, and the population increased from 1,000 in 1803 to 16,000 in 1840.

The building of the first railway west from St. Louis, the Pacific, was begun in 1851. Now the city is the terminus of twenty-four railroads, and its transportation facilities are among the most extensive and efficient of any city in the country.

Two magnificent bridges—the Eads and the Merchants—span the Mississippi at St. Louis. These rank among the notable bridges of the world, while among the largest railway stations is the Union Station of this city. The Louisiana Purchase Exposition, held in St. Louis in 1904, owed its magnificent success largely to the efforts of her citizens.

St. Louis is noted for her excellent system of public schools, and has many superior private schools. Washington University is one of the leading

educational institutions in the Union. The Catholic parochial schools are excellent and there are many other good denominational schools. The leading libraries are the Mercantile, the Public, and the Law Library.

The park system is notable alike for its extent and its beauty. Forest Park, where the Fair was held, the largest of the public parks, contains 1,400 acres, while the most widely known is the Missouri Botanical Garden, or Shaw's Garden. (Fig. 59.)

**Kansas City** (163,752), on the western border of the state at the confluence of the Missouri and Kansas rivers, the second city in the state in size and importance, is termed the gateway to the West. It is the commercial metropolis of a wide region remarkable for its fertility and its great mineral wealth.

In reality Kansas City, Mo., and Kansas City, Kans., are, in commercial interests, one city, and only the accident of a state line renders two city governments necessary. Together in 1900 the two cities had 215,170 inhabitants.

Like St. Louis, Kansas City owed its foundation to the fur trade. In 1826 M. Chouteau



FIG. 59. *View in the Missouri Botanical Garden—Shaw's Garden. This garden contains one of the most extensive collections of native and foreign flora in America.*



FIG. 60. *Looking down into the heart of the business district of St. Louis from the court house.*

established a branch of the American Fur Company at the present site of Kansas City, which until 1838 was known as Westport Landing. The growth and development of the city have been steady and continuous. As manufactures increased and trade extended railroad facilities grew proportionately, and the city is now one of the greatest railroad centers in the United States.

Kansas City has an excellent location. The manufacturing and wholesale district of the city is built largely in the low, level land lying adjacent to the rivers, while the retail and residential portions are built upon the bluffs and hills situated south and east of the rivers. It has an extensive park and boulevard system which greatly enhances the natural beauty of the city.

Its meat-packing industry, including the packing houses of Kansas City, Kans., and its live-stock trade, which is the second largest in the world, are exceeded only by those of Chicago. These form the leading industries. The city is



FIG. 62. Map of Kansas City and vicinity.



FIG. 61. Eleventh Street east from Main Street, Kansas City, the retail shopping district of the city.

an important grain market and is one of the greatest distributing centers in the world for agricultural implements. The confectionery, fruit and produce, milling, lumber, millinery, and many other interests are large and important.

The city has also looked to higher things, and is widely known for beautiful churches and justly proud of its public schools, which rank among the best in the country. The four high schools have the largest attendance in proportion to population of any schools in the Union, and its Central and Manual Training are the

largest mixed high schools in the world. The School Board also controls the Public Library of 100,000 volumes housed in a classic building



FIG. 63. The Pergola on the Plaza, Kansas City. The Plaza, with its chain of parks, is one of the most beautiful and popular driveways in the city.

which likewise contains an excellent Museum and an Art Gallery, with many instructive and well selected works. (Figs. 61, 62, and 63.)

St. Joseph (102,979), the county seat of Buchanan County, beautifully situated on the Missouri River in the northwestern corner of the state, is the third city in Missouri in size, wealth, and commercial importance. (Figs. 41, 45, and 64.)

The first settler on the site was Joseph Robidoux, an Indian trader. The town was laid out in 1843. St. Joseph has great natural advantages. It lies in the center of one of the most fertile regions in the country, and, having superior transportation facilities, has become one of the greatest inland markets in the United States. The most important industry is the live-stock trade with the meat-packing interest. The city has many flourishing industrial plants. The principal manufactures are woolens, boots and shoes, hardware and harness, flour, plows, furniture, cooperage, carriages, buggies and wagons, confectionery, foundry products, malt liquors, and clothing. The butter and dairy business is extensive, and the grain and seed interests employ considerable capital.

St. Joseph has a fine system of public schools, as well as excellent private and parochial schools. There are two public libraries and five city parks.

**Joplin** (26,023), situated in Jasper County in the extreme southwestern part of Missouri, is the commercial center of the great lead and zinc mining districts. Five-sixths of the zinc mined in the United States is taken out of mines in the vicinity of Joplin. The city is building up a large jobbing business and has a number of flourishing industrial plants including foundries, machine shops, and flouring mills. It is a city of many churches and has one of the best systems of public schools in the state.

**Springfield** (23,693), the county seat of Green County, situated on the Ozark Plateau at an altitude of 1,324 feet, is the leading commercial center of southwestern Missouri. It has a wholesale

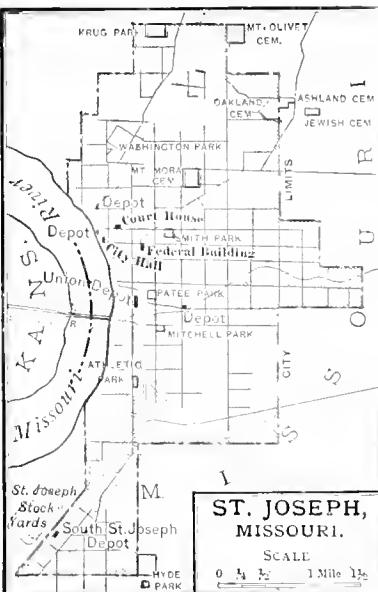


FIG. 64. Map of the city of St. Joseph.

trade of \$10,000,000 per annum, and an output from its factories of \$17,500,000. Springfield maintains excellent public and several private schools. Drury College and the Southwest State Normal School are located here. Fruit growing is an important industry of the Ozark region, and Springfield is the market for large quantities of these products.

**Sedalia** (15,231), the county seat of Pettis County, is a flourishing railroad center and a jobbing point of importance. The public schools rank high, as do also several private schools.

**Hannibal** (12,780), is perhaps best known as the town where "Mark Twain" passed his boyhood. (Figs. 67 and 68.) The city, beautifully located on the Mississippi River and at the junction of five railroads, possesses unusual transportation advantages. The principal industries are the manufacture of shoes, stoves, lime, and Portland cement. It has the largest cement factory in the world. The public schools are excellent, and there are numerous private schools of a high order. (Fig. 66.)

**Jefferson City** (9,664), the capital of Missouri and county seat of Cole County, is on the south bank of the Missouri near the geographical center of the state. On high bluffs overlooking the river are the capitol (Fig. 65), the Governor's mansion, and the State Penitentiary.

The Legislature assembles once in two years in the capitol to make laws for the state. The city has flourishing manufactures and is noted for its schools and libraries.

**Carthage** (9,416), the county seat of Jasper County in the southwestern part of the state, is the seventh city in size. The surrounding country is rich in lead



FIG. 65. The State Capitol at Jefferson City.



FIG. 66. A view of the city of Hannibal. Notice the Government building in the center, and in the distance Lovers' Leap and Pirates' Island.

zinc, and limestone and the city's trade in building stone is large. It has a good system of public schools and has several private schools, a fine library, and beautiful parks.

**Webb City** (9,201) is situated in the midst of rich zinc and lead fields and is surrounded by a fertile agricultural region. The mining, smelting, and shipping of lead, zinc, and coal are the chief industries. It also has foundries and manufactories of mining machinery.

**Moberly** (8,012) is in Randolph County, the leading county for coal mining. Railroad shops and the manufacture of paving and building brick give employment to a large number of people. It is one of the important railroad centers of northern Missouri and has a large and flourishing trade.

**St. Charles** (7,982), the county seat of St. Charles County, is situated on the bluffs of the Missouri River, about twenty miles northwest of St. Louis. The principal industries are the manufacturing of cars, tobacco, compressed brick, and the quarrying of stone. It has excellent public schools as well as a number of good private schools.

**Nevada** (7,461), the county seat of Vernon County, is the market for a fine agricultural region underlaid with coal. Mining industries consisting chiefly of coal and asphaltum are carried on near Nevada. The city has a fine

system of public schools and excellent private schools. It is the site of a State Hospital for the Insane, and has a large park.

**Independence** (6,974), the county seat of Jackson County, is situated ten miles east of Kansas City, with which it is connected by steam and electric car lines, and two rock roads. It is a well built city, the center of a fertile, highly improved district and has a large trade.

**Chillicothe** (6,905), the county seat of Livingston County, ninety-five miles northeast of Kansas City, is a railroad center of importance. It is surrounded by a rich agricultural country. Here is the State Industrial School for Girls.

**Aurora** (6,191) is the flourishing trade center of a lead and zinc mining district. The surrounding country is well adapted to fruit growing and agriculture. It has excellent schools.

**Kirksville** (5,966), the county seat of Adair County, is in the midst of an agricultural and stock-raising community. It manufactures flour, wagons, axe handles, and cigars. Coal is mined near by. The town has excellent public schools and is the seat of the First District Normal School, founded in 1870, and of the American School of Osteopathy.

**Columbia** (5,651), the county seat of Boone County, is near



FIG. 67. Samuel L. Clemens (Mark Twain) in the doorway of his old home at Hannibal.



FIG. 68. The home of Huckleberry Finn, Hannibal.

the center of the state, in the midst of a fine agricultural and stock-raising district. The seat of the State University and of a number of other excellent educational institutions, the interests of Columbia are largely educational. (Fig. 69.)

**De Soto** (5,611), Jefferson County, forty-three miles southwest of St Louis, is an important railroad town, and has flouring mills, brick works, marble works, and planing mills. It has good public schools and excellent private schools.

**Brookfield** (5,484), in Linn County, lies in the center of a productive farming country underlaid with coal. It is the seat of railroad shops and has important factories.

**Trenton** (5,396), the county seat of Grundy County, is situated in a region adapted to general agriculture and is adjacent to coal mines. The chief industrial interests are centered in cattle, coal mining, the railroad shops, flouring mills, and carriage factories.

**Louisiana** (5,131), the leading city of Pike County, is on the Mississippi. It is noted for the great railroad bridge that here spans the river, its large nurseries, cement factory, and its lumber and pearl button industries. (Figs. 70 and 72.)

**Mexico** (5,099), the county seat of Audrain County, a thriving town in the midst of a district devoted to the breeding of fine stock, is a



FIG. 69. Academic Hall, main building of the University of Missouri, at Columbia.

College and the Missouri Valley Colony for Feeble-Minded are located at Marshall.

**Clinton** (5,061), the county seat of Henry County, is a thriving industrial and trade center eighty-seven miles southeast of Kansas City. The adjacent country is well adapted to agriculture and stock raising. The chief industries are the manufacture of flour and tile. The Baird College for women is located here.

**Fulton** (4,883), the county seat of Callaway County, is the trade center of a fine agricultural and live-stock region. Its stock sales attract wide attention. Coal and fire clay are mined in the vicinity. Here are a number of excellent educational institutions, the Missouri School for the Deaf, and a State Insane Asylum.

**Cape Girardeau** (4,815), on the Mississippi 150 miles below St. Louis, is a leading railroad and distributing point. The chief interests are manufacturing and the trade in agricultural products. A State Normal School and St. Vincent's Convent and College are located here.



FIG. 70. The city of Louisiana. Note in the distance the bluffs of the Mississippi and the rolling borderlands. Here is the region of limestone and of loess soil, and here flourish cement factories and vast nurseries.

notable stock market. It is the seat of Hardin College for girls and of Mexico Military Academy for boys.

**Marshall** (5,086), the county seat of Saline County, is the trade center of a fertile, well improved agricultural district. Near by are celebrated mineral springs. Missouri Valley

**Warrensburg** (4,724), the county seat of Johnson County, lies in a fine agricultural and live-stock district. It has manufactories of flour, stove polish, and shoes. It also has large stone quarries and coal is mined in the vicinity. Here is one of the most flourishing of the State Normal Schools. Near by is Perte Springs, a famous summer resort.

**Maryville** (4,577), the county seat of Nodaway County, is situated at the junction of two railroads. It is the trade center for a thriving agricultural and live-stock section, and has foundries for iron and steel bridges. Here is the seat of a State Normal School.

**Carterville** (4,445) is the fourth in size of the large industrial towns in Jasper County, which is the greatest zinc-mining district in the world.

**Boonville** (4,377), the county seat of Cooper County, is situated on the Missouri River in a district devoted to farming and mining. Corn, wheat, and oats are shipped. The leading manufactures are leather, earthenware, and flour. Coal is mined in the vicinity. A State Training School for Boys is located here.

**Poplar Bluff** (4,321), the county seat of Butler County, is situated on a bluff overlooking the Black River. It lies adjacent to a large tract of lowland, covered with a variety of hardwood timbers. Lumber, staves, woodenware, and flour are manufactured. It has iron and machine works and a large shipping trade in lumber.

**Lexington** (4,190), on the Missouri River, the county seat



FIG. 71. A scene on the Meramec River, Franklin County.

also has a foundry and machine shops. Macon is the seat of Blees Military Academy.

**Rieh Hill** (4,503) is situated in the midst of a rich farming and mining district. Live-stock raising, the manufacture of flour, and coal mining are the chief industries.

**Towns with a Population of Less than 4,000.** In the 114 counties in the state are many other thriving towns. Liberty, Clay County, is the seat of William Jewell College. This county likewise contains Excelsior Springs, a popular summer pleasure and health resort. Potosi, the county seat of Washington County, is one of the oldest lead-mining centers in the state. It is noted also for the mining of baryta. Fayette, in Howard County, is the location of Central College, established fifty years ago, and Glasgow, in the same county, is distinguished for the observatory work in connection with the Pritchett Institute. Carrollton is a flourishing

trade center in Carroll County, and Eldorado Springs is a widely known health resort in Cedar County. West Plains is a growing market town in Howell County, one of the leading fruit districts of south Missouri.



FIG. 72. A peach nursery near Louisiana. This region is preeminently adapted to fruit growing, and here are some of the world's largest nurseries.

# AIDS FOR TEACHERS

## SUGGESTIVE QUESTIONS TO ACCOMPANY THE GEOGRAPHY OF MISSOURI

(1) In what direction from Missouri are the nearest seaports? (2) Which lie nearest to northern Missouri the coast ports or the Great Lakes ports? To southern Missouri? (3) To what state of the Union is Missouri nearest in size? (4) How does Missouri compare with Texas, the largest state? (5) How many states are smaller than Missouri? How many larger? (6) Describe the characteristic scenery of the section of the state in which you live. (7) Mention some topographic features that exist in your vicinity. (8) How would you find your way by a continuously up-hill route from the Mississippi River to the highest part of the state? (9) What is the highest altitude in the state, and where is it found? (10) Find the source of some large river that flows through or near your county. Near what watershed does its source lie? (11) If you were asked to plan a railroad crossing your state from southern Illinois to Kansas, what route would you select to secure the easiest grade? Explain your selection. (12) Can you give any physiographic reason why railroads should be fewer in the southern than in the northern part of the state? (13) What states contribute water to swell the volume of the navigable streams of Missouri? (14) Find a place in Missouri from whence a rowboat might reach the Mississippi River by passing through three other states and territories. (15) Find in Fig. 8 a group of counties in which you would expect rocky bluffs to be entirely lacking. Tell why. (16) If you were to sink a deep well near Joplin, what kind of rock would you expect to meet? (17) What kind near St. Joseph? (18) If all mantle rock were stripped from the state, where would you expect to find the greatest elevations remaining? Why? (19) In what portion of the state would you find the more rugged scenery? Why? (20) What is the traditional explanation of the lowlands in the southeastern part of the state? (21) After looking at Fig. 14, from what direction would you expect the rain-laden winds to come? (22) In what part of the state would you think the greatest number of sunshiny days would be recorded? (23) Is it possible to tell from Fig. 14 where snowstorms are most frequent? (24) Can you see in Fig. 4 a possible explanation of the southward bend of the  $56^{\circ}$  isotherm in Fig. 14? Of the similar bend in the  $52^{\circ}$  isotherm? (25) Where would you expect, after looking at Fig. 14, to find the most luxuriant plant growth of wild varieties? Why? (26) From what is said of animal life in the southern part of the state, what would you infer as to the density of population there? (27) In what way does the State Fish Commission aid the extension of fish-

eries? (28) Name some famous tribes of the Siouan family living farther north than Missouri. (29) What has become of the Indian tribes that formerly had homes in the present limits of Missouri? (30) Why were the early fur traders and missionaries interested in the location of Indian tribes? (31) For what purpose did De Soto enter the region of the lower Mississippi? (32) For what purpose did Marquette descend the Mississippi River? (33) What nation might properly have disputed French sovereignty in the Mississippi Valley? (34) Why were the first settlements located on the Mississippi rather than farther westward? (35) After 1763 was French or Spanish the language of Missouri? (36) About when did English begin to be the common language of Missouri? (37) With what state besides Missouri is Boone's fame connected? (38) Indicate the extent of the Louisiana cession of 1803. (39) Why was the Santa Fe trail important? (40) Suggest a possible reason why Missourians were interested in the capture of Santa Fe especially. (41) What is meant by "slavery"? By "a slave state"? (42) Find in Fig. 4 a possible explanation of the presence of alluvial soil in southeastern Missouri as shown in Fig. 18. (43) After examining Figs. 7, 18, and 27, what conclusion would you reach as to the productiveness of glacial soils? (44) What coincidence as to climate and corn-growing can you observe on comparison of Fig. 14 and Fig. 30? (45) What coincidence as to physiography and wheat growing do you detect in Fig. 21? (46) Why does not cotton figure among the important crops of Missouri? (47) Where in Missouri are vegetables most largely grown? (48) After examining the maps and diagram showing crops, which would you think most likely to be the principal crop of Missouri? (49) What conclusion can you draw from certain figures as to whether the plateau country of Missouri is good for fruit growing? (50) What are the principal fruits marketed from your part of the state? (51) Why are hogs raised in exceptionally large numbers in northern Missouri? (52) What becomes of the hogs not slaughtered on the farms where they are raised? (53) To what part of the Union are Missouri mules most largely shipped? (54) How does Missouri rank as a dairying state? (55) What proportion of its people are engaged in agriculture? (56) What state approaches nearest to Missouri as a poultry state? (57) For what purposes besides food are eggs used in commerce? (58) Comparing Fig. 37 with Fig. 4, can you see any relation between the metalliferous districts and the elevated region? Can you suggest any theory to account for it?

(59) Name three towns whose prosperity depends chiefly on mining industry. (60) For what commercial purpose is zinc used? (61) Are the lead and zinc of Missouri chiefly used within the state? (62) What is meant by a "smeltery" for iron? (63) What can you tell of the production of gold and silver in Missouri? (64) Where in the Mississippi basin outside of Missouri is copper mined? (65) Is Missouri coal of the anthracite or bituminous variety? (66) Why does Missouri coal find its chief markets west of the state rather than to the eastward? (67) Why are towns near coal mines considered good places to locate factories? (68) From what regions would the tobacco manufacturing industries of St. Louis be most likely to draw their supplies? (69) Find on page 12 some reason why Springfield should have flour-milling industries. (70) Can you draw any conclusion from Fig. 28 as to the best location in Missouri for pork-packing plants? (71) Name one or more city industries that would be likely to exist in the center of a fruit-growing region. Of a cattle-raising region. Of a wheat-growing region. (72) Where would be the best place to locate a wagon-making establishment? (73) What advantages do steamboat men have over railroad men in competing for freight traffic? (74) What advantages do railroad men have over steamboat men in such competition? (75) What method of transportation is most important to the state as a whole? Why? (76) Why are railroads necessary especially in a region having mineral resources? (77) Explain why banks are "necessary factors" in industrial life. (78) What is the difference between a state and a national bank? (79) Why should the governor or any other official possess the power to pardon? (80) To whom would a city appeal for aid if its own police were unable to keep peace? What might then be done to enforce quiet and order? (81) Why is the State Board of Equalization important? (82) If you should have \$1,000 taxable property, about how much would you have to pay the

state each year in taxes? (83) Where does the money come from that pays for the maintenance of your school? (84) Does your school benefit from the permanent school fund? (85) What is meant by a "county seat"? (86) Name some right or privilege that is conferred upon you by the state constitution. (87) Can the General Assembly pass a law that will take that right away from you? (88) If for any reason you should want some new law passed, on whom would you depend for its presentation in the General Assembly? Why? (89) What need is there of state courts when the General Assembly makes the laws and civil officials are provided to enforce them? (90) Why should Missouri have sixteen Congressmen rather than ten or twenty? (91) Where do Congressmen go in order to do law-making work? Why do they not do their work at Jefferson City, as do members of the General Assembly? (92) Why is it necessary to maintain penal institutions? (93) Why should the state maintain a home for the feeble-minded? (94) How does it happen that Missouri has a home for Federal Soldiers and one for Confederate Soldiers also? (95) How does Missouri compare with other states in its percentage of illiteracy? (96) Why does the state maintain normal schools? (97) Tell something that "Mark Twain" has written about Missouri scenes or about persons supposed to live in Missouri. (98) Repeat a stanza from some one of Eugene Field's poems. (99) Name one of the widely known newspapers of Missouri. (100) Explain why the situation of St. Louis "offered excellent facilities for the development of trade." (101) Why is the Eads Bridge famous all over the world? (102) Explain why the presence of the state line prevents the consolidation of the two Kansas City municipalities. (103) How is the prosperity of a town helped by the centering of railroad lines there? (104) What is meant by the statement that certain towns have a "jobbing" trade or business? (105) What is meant by saying that a city is a "market for a large agricultural region"?

#### SUGGESTIONS FOR COLLATERAL READING

Barnard, *Government of Missouri*.  
 Carr, *Missouri, a Bone of Contention*.  
 Chittenden, *History of Early Steamboat Navigation on the Missouri River*, Vol. 2.  
 Coues, *History of the Expedition under the Command of Lewis and Clark to the Source of the Missouri*.  
 Davis and Durrie, *Illustrated History of Missouri*.  
 Evans, *Confederate Military History*, Vol. 9.  
 Greenwood, *Life of Lewis Fields Linn*.  
 Hogan, *On the Missions in Missouri, 1857-68*.  
 Hollister and Norman, *Five Famous Missourians*.  
 Jesse and Allen, *Missouri Literature*.  
 King, *Stories of a Country Doctor*.  
 Leftwich, *Martyrdom in Missouri*.  
 MacNamara, *History of Missouri* (For Primary Grade).  
 Missouri Geological Survey, *Annual Reports*.

Missouri Historical Society (St. Louis), *Publications*  
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## Statistics of the State of Missouri, by Counties. Census of 1900.

COUNTY	ORGANIZATION	AREA	POPULATION 1900	1890	FARM PROPERTY INC. LIVE STOCK	FARM PRODUCTS	MANUFAC- TURES	COUNTY SEAT	POPULATION 1920
Adair.....	1841	561	21,725	17,417	\$ 9,368,000	\$ 1,290,420	\$ 452,286	Kirksville	5,066
Andrew.....	1841	420	17,332	16,000	1,502,450	2,176,075	264,441	Savannah	1,880
Atchison.....	1845	532	16,551	15,533	20,858,100	3,047,250	153,190	Rockport	1,322
Audrain.....	1830	689	21,160	22,74	14,090,554	1,815,251	502,122	Mexico	5,609
Barry.....	1835	799	25,532	22,043	5,988,674	1,285,112	451,972	Cassville	762
Barton.....	1855	590	18,253	18,504	10,014,220	1,370,058	200,079	Lamar	2,737
Bates.....	1841	874	30,141	32,223	26,714,350	2,520,070	566,023	Butler	3,158
Benton.....	1835	820	10,550	14,973	6,366,051	1,645,050	133,215	Warsaw	743
Bollinger.....	1851	610	14,050	13,121	3,066,709	75,325	180,610	Marble Hill	205
Boone.....	1820	680	28,042	20,43	12,840,015	2,000,052	550,290	Columbia	5,051
Buchanan.....	1830	417	21,838	20,100	15,357,580	2,000,522	42,407,081	St. Joseph	152,079
Butler.....	1849	702	16,709	17,104	1,780,241	471,128	1,030,307	Poplar Bluff	4,321
Caldwell.....	1830	420	16,650	15,152	12,581,706	1,892,308	410,510	Kingston	655
Caffaway.....	1820	830	25,984	25,131	11,554,229	2,117,030	393,532	Fulton	4,883
Camden.....	1841	702	13,113	15,430	2,600,132	610,447	117,847	Linn Creek	342
Cape Girardeau.....	1812	570	24,315	22,00	9,171,481	1,450,527	1,414,121	Jackson	1,658
Carroll.....	1833	686	20,455	25,742	17,103,025	2,510,153	474,172	Carrollton	3,554
Carter.....	1850	500	9,700	4,050	6,555,500	108,508	1,270,270	Van Buren	-
Cass.....	1835	712	23,030	23,304	26,270,332	2,455,520	287,500	Harrisonville	1,844
Cedar.....	1845	491	16,923	15,020	5,802,549	1,011,039	215,040	Stockton	555
Chariton.....	1820	740	26,820	20,254	16,245,537	2,257,602	412,451	Keytesville	1,127
Christian.....	1860	551	16,193	14,217	4,743,707	994,448	190,757	Ozark	835
Clark.....	1818	504	15,383	15,126	10,579,714	1,425,111	262,482	Kahoka	1,818
Clay.....	1822	407	18,093	10,856	12,472,083	1,785,056	400,880	Liberty	2,407
Clinton.....	1833	417	17,303	17,148	12,848,820	2,000,700	269,646	Plattsburg	1,878
Cole.....	1820	390	20,578	17,281	5,374,553	902,301	3,514,143	Jefferson City	9,664
Cooper.....	1818	502	22,532	22,707	1,350,315	2,054,069	670,200	Boonville	4,377
Crawford.....	1820	747	12,050	11,691	3,830,501	600,011	127,504	Steelville	686
Dade.....	1841	493	18,125	17,526	6,584,541	1,215,012	303,112	Greenfield	1,429
Dallas.....	1844	530	13,093	12,647	3,139,788	613,175	135,014	Buffalo	757
Daviess.....	1830	531	21,325	25,450	14,859,035	2,120,073	280,060	Gallatin	1,752
Dekalb.....	1845	420	14,418	14,539	12,333,142	1,755,503	124,246	Maysville	925
Dent.....	1851	708	12,050	12,149	2,010,501	610,242	423,377	Salem	1,481
Douglas.....	1857	809	16,802	14,111	2,694,100	587,408	125,759	Ava	-
Dunklin.....	1845	531	21,700	15,685	3,604,504	1,593,546	812,358	Kennett	1,510
Franklin.....	1818	580	30,581	28,556	12,815,053	2,245,107	1,050,401	Union	744
Gasconade.....	1820	518	12,298	11,790	5,017,012	848,030	288,820	Hermann	1,575
Gentry.....	1841	492	20,554	16,018	12,015,710	1,087,074	353,733	Albany	2,025
Greene.....	1833	668	52,713	45,010	15,971,312	2,124,590	5,020,110	Springfield	23,207
Grundy.....	1843	432	17,832	17,870	10,180,230	1,493,675	524,112	Trenton	5,390
Harrison.....	1845	730	24,308	21,033	16,412,733	2,267,802	338,090	Bethany	2,093
Henry.....	1834	740	28,054	28,255	13,510,508	2,006,257	613,556	Clinton	5,001
Hickory.....	1845	498	9,955	9,453	3,224,739	545,875	86,520	Hermitage	-
Holt.....	1841	400	17,053	15,499	1,943,002	1,055,500	350,421	Oregon	1,032
Howard.....	1816	450	18,337	17,371	10,183,306	1,058,600	447,409	Fayette	2,717
Howell.....	1857	907	21,834	18,018	5,662,308	904,782	430,251	West Plains	2,002
Iron.....	1857	555	8,719	9,119	1,344,320	302,724	492,011	Ironton	707
Jackson.....	1820	607	105,193	100,510	28,607,548	3,532,744	37,827,425	Independence	9,074
Jasper.....	1841	632	84,018	50,500	12,943,245	1,068,272	5,401,013	Carthage	9,410
Jefferson.....	1818	687	25,713	22,484	8,012,151	1,434,079	2,899,000	Hillsboro	254
Johnson.....	1834	835	27,843	28,132	15,372,688	2,204,052	500,780	Warrensburg	4,724
Knox.....	1845	504	13,479	13,551	10,363,220	1,440,034	133,657	Edina	1,605
Laclede.....	1849	720	16,523	14,721	2,705,554	812,225	165,182	Lebanon	2,125
Lafayette.....	1820	604	33,079	30,184	10,620,452	2,064,700	993,430	Lexington	4,100
Lawrence.....	1845	612	31,662	26,228	10,200,081	1,600,616	662,100	Mount Vernon	1,200
Lewis.....	1833	500	16,724	15,935	6,060,254	1,248,704	292,748	Monticello	287
Lincoln.....	1818	613	18,352	18,340	9,140,621	1,683,242	300,450	Troy	1,453
Linn.....	1837	620	25,503	24,121	14,093,253	1,630,035	720,502	Linneus	878
Livingston.....	1837	532	22,302	27,608	13,450,178	1,765,456	720,605	Chillicothe	6,025
McDonald.....	1849	523	13,574	11,283	2,620,105	720,173	280,739	Pineville	-
Macon.....	1837	828	33,018	35,575	13,694,237	1,044,626	522,132	Macon	4,168
Mahlon.....	1848	495	9,975	9,205	4,084,518	499,105	460,071	Fredericktown	1,577
Maries.....	1855	530	9,616	8,610	2,408,470	515,047	65,242	Vienna	-
Marion.....	1826	432	20,331	20,233	9,280,831	1,402,121	878,255	Palmyra	2,523
Mercer.....	1845	451	14,700	14,581	8,005,308	1,027,109	141,428	Princeton	1,575
Miller.....	1837	507	15,187	14,162	3,033,452	715,186	145,781	Tuscarumba	225
Mississippi.....	1845	417	11,837	10,134	6,373,797	721,808	452,439	Charleston	1,503
Monteau.....	1845	410	15,031	15,030	7,071,913	1,210,880	36,827	California	2,184
Monroe.....	1831	666	19,716	20,700	13,300,218	2,757,004	188,272	Paris	1,307
Montgomery.....	1848	514	10,571	10,850	7,002,046	1,186,344	242,099	Daniell	174
Morgan.....	1833	612	12,175	12,311	5,264,420	627,733	65,909	Versailles	1,240
New Madrid.....	1812	654	11,282	9,317	3,514,129	602,630	261,688	New Madrid	1,480
Newton.....	1838	620	27,001	22,108	7,300,427	1,320,324	740,959	Neosho	2,775
Nodaway.....	1845	504	32,938	30,914	3,022,178	4,467,306	600,741	Maryville	4,577
Oregon.....	1845	787	13,000	12,497	2,401,751	575,208	227,011	Alton	470\$
Osage.....	1841	605	14,096	13,080	5,559,613	946,236	260,807	Linn	491
Ozark.....	1841	747	12,145	9,705	1,700,068	431,341	143,312	Gainesville	122
Pemiscot.....	1801	509	12,115	5,975	1,023,350	570,329	718,158	Carutherville	2,115
Perry.....	1820	468	15,134	13,237	5,375,950	1,074,450	251,022	Perryville	1,275

## REFERENCE TABLES

COUNTY	ORGANIZATION	AREA	POPULATION 1900	POPULATION 1890	FARM PROPERTY INC. LIVE STOCK	FARM PRODUCTS	MANUFAC- TURES	COUNTY SEAT	POPULATION 1900
Pettis.....	1833	685	32,435	31,151	14,572,332	2,237,849	1,099,103	Sedalia	15,231
Phelps.....	1857	677	14,104	12,630	3,212,096	627,215	227,753	Rolla	1,600
Pike.....	1818	622	23,744	20,321	12,312,507	1,043,030	2,350,437	Bowling Green	1,902
Platte.....	1848	412	16,103	16,248	12,705,540	6,545,315	349,048	Platte City	744
Polk.....	1833	633	23,255	20,330	8,500,009	1,260,691	466,292	Boilvor	1,809
Pulaski.....	1818	532	12,304	9,387	2,324,797	505,131	11,3,365	Waynesville	....
Putnam.....	1845	518	16,688	13,305	6,597,376	1,257,931	1,833,533	Unionville	2,050
Ralls.....	1820	455	12,287	12,204	8,830,142	1,347,589	117,405	New London	881
Randolph.....	1820	450	24,442	24,503	9,585,539	1,222,130	1,098,509	Huntsville	7,805
Ray.....	1820	561	24,505	24,215	15,030,801	2,373,403	244,300	Richmond	3,478
Reynolds.....	1815	830	8,101	7,683	1,449,809	388,045	130,082	Centerville	....
Ripley.....	1813	623	13,180	8,512	1,429,058	424,120	382,381	Douglas	1,508
St. Charles.....	1812	450	24,474	22,977	11,854,208	1,802,220	3,375,005	St. Charles	7,982
St. Clair.....	1811	705	17,027	16,747	7,023,421	1,266,936	215,428	Osceola	1,937
Ste. Genevieve.....	1812	403	10,550	8,853	3,473,102	682,213	435,209	Ste. Genevieve	1,797
St. Francois.....	1821	400	24,051	17,347	4,321,149	601,825	1,204,013	Farmington	1,778
St. Louis.....	1812	453	50,542	36,307	32,007,825	3,173,535	1,441,403	Clayton	....
St. Louis City.....	1870	61	575,235	451,722	8,227,791	7,022,100	233,620,733	....	....
Saline.....	1820	820	33,703	33,702	21,841,277	3,023,308	800,021	Marshall	5,086
Schuylerville.....	1845	362	10,842	11,249	0,489,705	91,801	164,887	Lancaster	980
Scotland.....	1841	453	13,232	12,974	10,118,159	1,293,070	177,730	Memphis	2,105
Scott.....	1821	410	13,502	11,228	5,332,514	942,152	403,405	Benton	234
Shannon.....	1841	993	11,247	8,808	1,551,615	357,142	880,382	Emmenee	....
Shelby.....	1835	520	10,107	13,442	10,057,010	1,533,340	202,881	Shelbyville	777
Stoddard.....	1835	833	24,669	17,327	4,371,513	1,142,155	860,237	Bloomfield	1,475
Stone.....	1851	599	9,292	7,090	2,307,115	584,760	81,358	Galena	....
Sullivan.....	1845	645	29,282	19,000	1,303,071	1,777,578	157,245	Milan	1,757
Taney.....	1847	648	10,127	7,073	2,142,405	455,050	103,587	Forsyth	294
Texas.....	1835	1,457	22,102	16,456	4,290,538	851,414	282,267	Houston	514
Vernon.....	1851	830	31,010	31,505	13,772,724	2,050,550	1,210,073	Nevada	7,461
Warren.....	1853	410	0,010	0,013	5,205,425	831,030	118,880	Warrenton	770
Washington.....	1813	744	14,203	13,153	3,451,747	677,756	222,706	Potosi	638
Wayne.....	1818	770	13,309	11,027	2,302,853	633,100	1,008,302	Greenville	1,051
Webster.....	1855	579	10,642	15,177	4,308,003	823,320	211,004	Marsfield	964
Worth.....	1801	204	0,832	8,738	6,491,417	1,009,430	132,000	Grant City	1,400
Wright.....	1841	673	17,510	14,484	3,100,604	605,326	201,101	Hartville	445

The Population of Missouri at Each Federal Census.

Population of the Leading Cities and Towns of Missouri at Each Federal Census from 1850 to 1900.

RELATIVE RANK	PER CENTAGE OF INCREASE	INCREASE IN TEN YEARS	TOTAL POPULATION	DENSITY PER SQ. MILE	1900	1890	1880	1870	1860	1850
1810.....	23	....	22,245	0 3	St. Louis	575,235	451,770	350,518	310,864	160,773
1820.....	23	210 4	45,741	66,586	Kansas City	16,3752	132,710	55,785	42,260	4,418
1830.....	21	110 9	73,809	149,455	St. Joseph	10,2970	10,2970	32,431	16,505	8,032
1840.....	16	173 2	243,247	383,705	Joplin	20,023	9,943	7,038	....	....
1850.....	13	77 8	298,342	682,044	Springfield	23,207	11,850	6,522	5,555	415
1860.....	8	73 3	499,068	1,152,012	Sedalia	15,231	14,008	9,501	4,500	....
1870.....	5	45 6	359,283	1,721,205	Hannibal	12,780	12,857	11,074	10,125	6,505
1880.....	5	26 0	447,055	2,108,380	Jefferson City	6,064	6,742	5,271	4,420	2,520
1890.....	5	23 8	510,804	2,670,184	Carthage	4,416	7,081	4,107	....	....
1900.....	5	16 0	427,451	3,100,005	Wadell City	3,201	5,043	4,588	....	....

State or County of Birth of the Population of Missouri

STATE	NUMBER	COUNTRY	NUMBER	1900	1890	1880	1870	1860	1850
Illinois.....	170,312	Germany	100,282	St. Louis	575,235	451,770	350,518	310,864	160,773
Kentucky.....	88,241	Ireland	31,832	Kansas City	16,3752	132,710	55,785	42,260	4,418
Ohio.....	80,666	England	15,666	St. Joseph	10,2970	10,2970	32,431	16,505	8,032
Indiana.....	70,519	Canada and Newfoundland	8,610	Joplin	20,023	9,943	7,038	....	....
Tennessee.....	64,072	Switzerland	6,810	Springfield	23,207	11,850	6,522	5,555	415
Kansas.....	50,817	Russia	6,672	Sedalia	15,231	14,008	9,501	4,500	....
Iowa.....	52,575	Sweden	5,092	Hannibal	12,780	12,857	11,074	10,125	6,505
Virginia.....	55,376	Austria	4,458	Jefferson City	6,064	6,742	5,271	4,420	2,520
Pennsylvania.....	34,338	Italy	4,345	Carthage	4,415	4,415	3,454	3,148	2,138
New York.....	50,205	Scotland	3,978	Wilmington	3,061	4,000	3,320	2,230	1,414
Arkansas.....	26,025	Bohemia	3,453	Clinton	3,011	3,000	1,950	....	....
Nebraska.....	13,034	France	3,288	Fulton	4,848	4,547	2,264	472	....
Wisconsin.....	11,012	Russian Poland	1,608	Trenton	5,390	5,300	3,312	2,27	1,07
North Carolina.....	10,105	Wales	1,613	Louisiana	5,131	5,202	4,325	3,030	2,436
Michigan.....	9,496	Denmark	1,515	Mexico	5,209	4,750	3,835	2,672	900
Texas.....	9,459	German Poland	1,476	Marshall	5,056	4,207	2,751	....	....
Mississippi.....	7,128	Hungary	962	Clinton	5,004	4,737	2,868	744	....
West Virginia.....	6,153	Belgium	864	Lexington	4,853	4,314	2,470	1,555	....
Alabama.....	5,899	Netherlands	812	Fulton	4,815	4,207	3,880	3,555	2,663
Maryland.....	5,809	Norway	510	Cape Girardeau	4,815	4,207	3,880	3,555	2,663
Georgia.....	4,977	China	412	Warrensburg	4,724	4,724	4,049	2,943	982
Louisiana.....	4,730	Austrian Poland	304	Maryville	4,577	4,037	3,455	2,477	1,241
Massachusetts.....	4,648	Mexico	162	Carterville	4,445	2,854	483	....	....
Minnesota.....	3,692	Australia	144	Boonville	4,377	4,141	3,854	3,500	2,326
New Jersey.....	3,542	South America	123	Poplar Bluff	4,321	2,187	791	....	....
Colorado.....	3,136	Romania	115	Lexington	4,160	4,537	3,966	4,373	4,122
Indian Territory.....	2,882	West Indies	101	Washington	3,015	2,725	2,421	....	....
California.....	2,282	Central America	99	Cameron	2,070	2,017	2,150	1,428	....
Vermont.....	2,279	Turkey	88	West Plains	2,052	2,001	351	1,30	....
Maine.....	1,080	Greece	66	Higginsville	2,791	2,312	797	....	....
Other states.....	23,810	Other regions	1,209	Lunar	2,737	2,860	957	1,011	673
				Fayette	2,717	2,247	1,247	815	947

## REFERENCE TABLES

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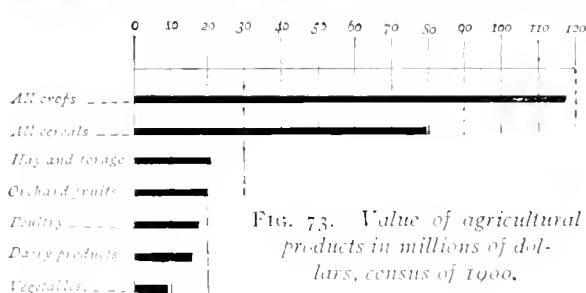


FIG. 73. Value of agricultural products in millions of dollars, census of 1900.

### Value of Agricultural Products of Missouri, Relative Rank of State in Production, and Leading County. Census of 1900.

PRODUCT	RANK OF STATE	VALUE OF PRODUCT	LEADING COUNTY
Corn	3	\$61,246,305	Nodaway.
Hay and forage	7	20,407,501	Sullivan.
Dairy products	11	15,042,300	St. Louis City
Wheat	9	13,520,012	Franklin.
Poultry	2	6,525,252	Nodaway.
Eggs	6	5,315,371	Franklin.
Oats	14	4,060,153	Nodaway.
Orchard products	8	2,944,175	St. Louis.
Potatoes	10	2,756,665	St. Louis.
Berries	10	1,050,811	St. Louis.
Cotton	13	924,258	Dunklin.
Wool	18	822,871	Monroe.
Sorghum products	1	665,624	Johnson.
Flaxseed	6	510,929	Bates.
Sweet potatoes	14	424,472	St. Louis.
Clover and grass seed	7	423,305	Knox.
Honey and wax	3	348,694	Macon.
Vine products	8	314,827	St. Louis.
Tobacco	16	218,901	Chariton.
Broom corn	3	150,088	Henry.
Ostions	13	135,877	St. Charles.
Rice	19	126,192	Clark.
Beans	8	73,850	Clark.
Pias	19	66,721	H-Jowell.
Castor beans	2	31,177	Vernon.
Nuts	7	19,838	Henry.
Kant corn	5	12,830	Bates.
Buckwheat	20	12,070	Clark.
Barley	33	11,232	Nodaway.
Peanuts	14	6,427	Oregon.
Maple syrup	13	5,271	Boone.
Molasses sugar	13	1,288	Madison.

### Live Stock Owned in Missouri, 1900.

	RANK OF STATE	VALUE	LEADING COUNTY
Cattle	6	\$75,650,507	Nodaway.
Horses	6	42,004,814	Nodaway.
Mules	2	15,482,282	Boone.
Sheep	18	3,350,840	Monroe.
Swine	3	16,533,935	Nodaway.
Birds	5	508,217	Nodaway.
Chickens			Nodaway.
Turkeys			Mercer.
Geese	3	5,720,350	Callaway.
Ducks			Stoddard.

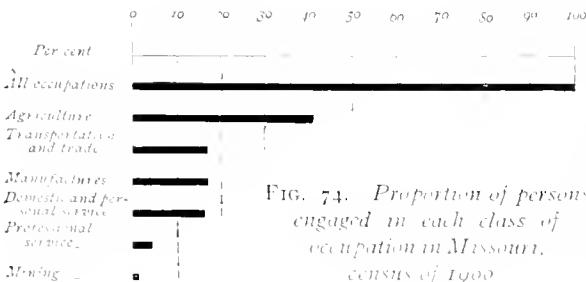
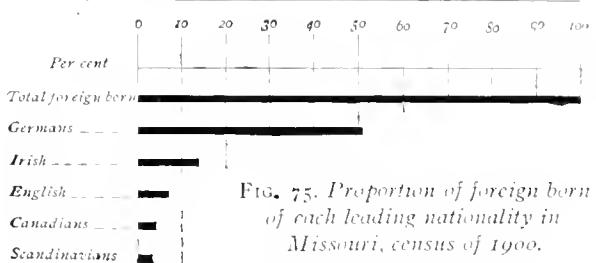


FIG. 74. Proportion of persons engaged in each class of occupation in Missouri, census of 1900.

### The Manufacturing Cities of Missouri and Facts about their Industrial Plants. Census of 1900.

NUMBER OF ESTABLISHMENTS	NUMBER OF WAGE EARNERS	AMOUNT OF WAGES PAID	VALUE OF PRODUCTS
6,732	82,072	\$18,104,070	\$2,33,020,733
3,767	15,381	7,783,052	30,527,392
449	7,420	3,100,047	31,000,730
245	2,127	1,915,443	4,126,871
99	453	1,061,124	3,361,098
75	1,273	601,057	3,145,062
172	1,420	611,850	3,025,149
123	951	510,286	2,001,79
131	1,098	403,777	1,599,320
94	523	217,217	1,176,681
81	493	190,212	1,040,616
84	766	353,641	950,664
75	310	95,511	968,088
64	220	100,082	886,354
94	282	125,070	912,251
111	299	114,057	668,767
97	285	86,426	475,451
86	252	113,508	450,748
42	164	70,294	425,761
84	194	68,235	415,894
62	172	60,990	372,194
66	155	60,750	333,884
64	103	80,608	329,880
48	122	41,445	311,368
48	115	42,050	255,132



### The State and Territorial Governors of Missouri from 1805 to 1906.

TERM	
Gen. James Wilkinson	1805-1806
Capt. Meriwether Lewis	1805-1809
Gen. Benjamin Howard	1809-1812
Frederick Bates (appointed)	1812-1813
William Clark	1813-1820
STATE	
Alexander McNair	1820-1824
Frederick Bates	1824-1825
Abraham J. Williams (President Senate)	1825-
John Miller	1825-1832
Daniel Dunkin	1832-1836
Lilburn W. Boggs	1839-1843
Thomas Reynolds	1842-1844
M. M. Marinaduke (Lieutenant-Governor)	1844-
John C. Edwards	1844-1848
Austin A. King	1848-1852
Sterling Price	1852-1856
Tristern Polk	1853-1857
Hancock Jackson (Lieutenant-Governor)	1857-
Robert M. Stewart	1857-1860
Calbone F. Jackson	1860-1861
Hamilton R. Gamble (Provisional)	1861-1864
Willard P. Hall (Lieutenant-Governor)	1864-
Thomas C. Fletcher	1864-1868
Joseph W. McClung	1868-1872
B. Gratz Brown	1872-1874
Silas Woodson	1872-1874
Charles H. Hardin	1874-1876
John S. Phelps	1876-1880
Thomas T. Crittenden	1880-1884
John S. Marmaduke	1884-1887
Albert P. Moorehouse (Lieutenant-Governor)	1887-1888
David R. Francis	1888-1892
Wm. J. Stone	1892-1896
Lon V. Stephens	1896-1902
Alex M. Dockery	1902-1904
Joseph W. Folk	1904-

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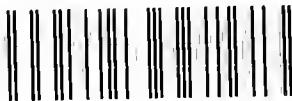
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